# TRANSPORTATION IMPROVEMENT PROGRAM (TIP)

2019 - 2023

# FOR THE METROPOLITAN PLANNING ORGANIZATION PIONEER VALLEY REGION, MASSACHUSETTS

**Endorsed: DRAFT** 



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#### **PREFACE**

#### The Pioneer Valley Region

The Pioneer Valley Region is comprised of 43 cities and towns covering approximately 1,180 square miles. Home to over 626,000 residents, the Pioneer Valley is the fourth largest metropolitan area in New England. The map on the following page references the Pioneer Valley Region.

#### TIP Format and MPO Endorsement

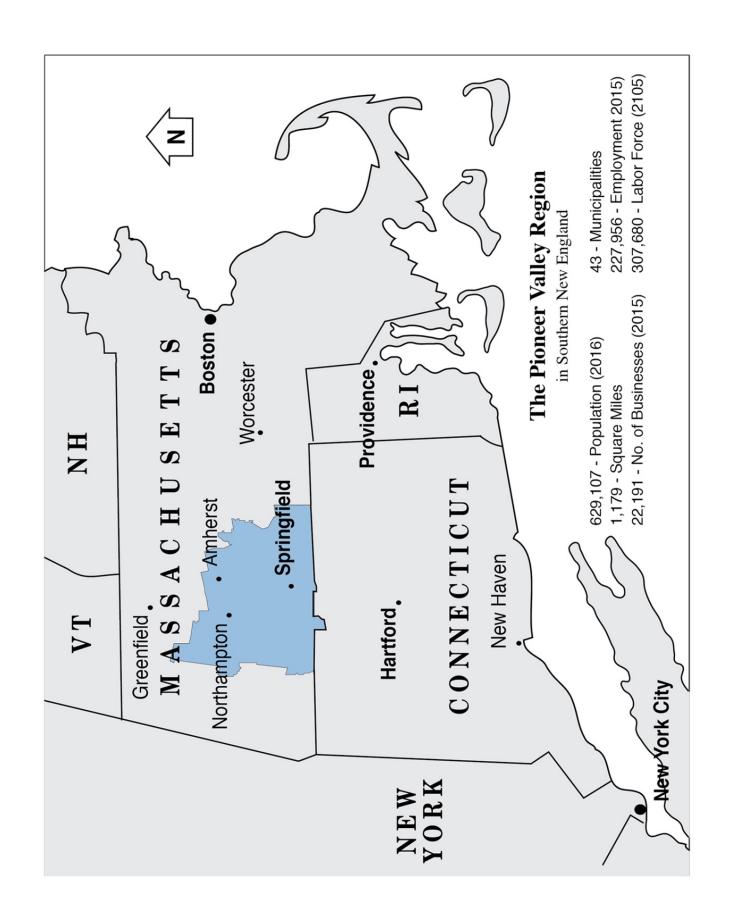
The FFY 2019 - 2023 TIP has been prepared with completely separate components of the document that are subject to federal review and approval and components that are not. This distinction of a "federal component" was the firm position of the Massachusetts Department of Transportation (MassDOT) as a means to avoid potential problems with adequately satisfying federal financial constraint requirements with the non-federal aid component of the TIP. Although a non-federal component of the TIP is represented, it is understood that this component is not subject to Metropolitan Planning Final Rule 23 CMR 450 section 324, therefore federal review and approval is not required.

The non-federal component is provided for the benefit of the MPO and the constituent communities as a representation of an agreed upon listing of improvement projects to be undertaken entirely with state provided resources. All projects included in the Non Federal Aid (NFA) section of the TIP must be eligible to receive federal funds and be located on a functionally classified road. The separation of federal aid projects from non-federal aid projects by no means represents a lack of commitment by the state to fund all projects specifically programmed in the document. Assuming that adequate funds are available from federal and/or state sources, it can be fully expected that the following project listings can and will be implemented over the FFY 2019 - 2023 time frame. Pending federal guidance approving the inclusion of non-federal aid projects without secured bonded resources in each year, the TIP will be amended to reinstate all non-federal aid projects into the document endorsed for federal review and approval.

MassDOT Commitment to Funding all Designed and Permitted Projects

The MassDOT has committed to funding all transportation improvement projects that will be ready for advertisement in FFY 2019 and beyond. In response to this commitment, Pioneer Valley local officials in cooperation with regional and state officials from the MassDOT have made a concerted effort to develop a TIP project listing that is truly representative of the projects that will realistically be ready for advertisement in FFY 2019. Funding targets for the Pioneer Valley Region have been issued by MassDOT identifying potential resources for each year of the TIP.

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#### I.GENERAL SUPPORT INFORMATION

#### INTRODUCTION

The Transportation Improvement Program (TIP) is a requirement of the Metropolitan Transportation Planning Process as described in the Metropolitan Planning Final Rule 23 CFR 450 section 324. This regulation developed by the Federal Department of Transportation defines the Transportation Improvement Program as:

"A staged, multiyear, intermodal program of transportation projects which is consistent with the metropolitan transportation plan."

The Pioneer Valley TIP is a Five-year schedule of priority highway, bridge, transit, and multimodal projects identified by year and location complete with funding source and cost. The TIP is developed annually and is available for amendment and adjustment at any time. Each program year of the TIP coincides with the Federal Fiscal Year calendar, October 1 through September 30. All TIPs and amendments are consistent with the goals and objectives of the Regional Transportation Plan for the Pioneer Valley region. This TIP is financially constrained.

#### FEDERAL AUTHORIZTION

FAST Act, Fixing America's Surface Transportation (Pub. L. No. 114-94), was signed into law on December 4, 2015. Funding surface transportation programs at over \$305 billion for fiscal years (FY) 2016 through 2020, FAST act replaced MAP-21 which was enacted in 2012. Under the FAST Act all Metropolitan Planning Organizations are required to incorporate ten planning factors. The ten planning factors are as follows:

- 1. Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
- 2. Increase the safety of the transportation system for motorized and non-motorized users.
- 3. Increase the security of the transportation system for motorized and non-motorized users.
- 4. Increase the accessibility and mobility of people and for freight.
- 5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- 6. Enhance the integration and connectivity of the transportation system, across and between modes, people and freight.
- 7. Promote efficient system management and operation.
- 8. Emphasize the preservation of the existing transportation system.
- 9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
- 10. Enhancing travel and tourism

The Moving Ahead for Progress in the 21st Century Act (MAP-21), enacted in 2012, included provisions to make the Federal surface transportation more streamlined, performance-based, and multimodal, and to address challenges facing the U.S. transportation system, including improving safety, maintaining infrastructure condition, reducing traffic congestion, improving efficiency of the

system and freight movement, protecting the environment, and reducing delays in project delivery. The FAST Act builds on the changes made by MAP-21.<sup>1</sup>

The FAST Act specifically addresses all modes of transportation and enhances many of the existing provisions and programs defined in past transportation legislation.

National goal areas continue to be a priority under the FAST Act and address the following areas:

**Safety**—To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.

**Infrastructure condition**—To maintain the highway infrastructure asset system in a state of good repair.

**Congestion reduction**—To achieve a significant reduction in congestion on the NHS.

**System reliability**—To improve the efficiency of the surface transportation system.

**Freight movement and economic vitality**—To improve the national freight network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.

**Environmental sustainability**—To enhance the performance of the transportation system while protecting and enhancing the natural environment.

**Reduced project delivery delays**—To reduce project costs, promote jobs and the economy, and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies' work practices

#### PERFORMANCE MEASURES

Performance Based Planning and Programming

The FAST Act requires MPOs, in collaboration with the state DOT and transit agencies, to formally establish targets for performance measures aligned with the national goals. Performance Based Planning and Programming (PBPP) refers to the application of performance management within the parameters of the FAST Act to achieve desired outcomes for the multimodal transportation system. It is intended advance transportation investments based on their ability to meet established goals. This includes setting targets for the performance measures identified in the FAST Act.

Performance measures are intended to monitor and track performance over time and assess the effectiveness of projects and strategies in meeting the national goal areas. In the Pioneer Valley region, performance based planning methods have been used in the development of the Transportation Evaluation Criteria to program projects as part of the Regional Transportation Improvement Program for many years.

USDOT implemented the federal PBPP requirements through a series of phased rulemakings. At the conclusion of this rulemaking process, the Commonwealth of Massachusetts has twelve months to establish statewide performance targets for each required federal performance

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<sup>&</sup>lt;sup>1</sup> https://www.fhwa.dot.gov/fastact/summary.cfm

measure. The Pioneer Valley MPO has 180 days from the date of Commonwealth's adoption of the statewide performance targets to either adopt the statewide targets or establish their own regional performance targets. A summary of the Implementation Timeline is shown below.

**Implementation Timeline** 

Final Rule	Effective	States Set	MPOs Set	TIP Inclusion
	Date	Targets By:	Targets By:	
Safety	April 14,	August 31,	No later than	Updates or
Performance	2016	2017	February 27,	Amendments on or
Measures (PM1)			2018	after May 27, 2018
Pavement/Bridge	May 20, 2017	May 20, 2018	No later than	Updates or
Performance			November 16,	Amendments on or
Measures (PM2)			2018	after May 20, 2019
System	May 20, 2017	May 20, 2018	No later than	Updates or
Performance			November 16,	Amendments on or
Measures (PM3)			2018	after May 20, 2019

Massachusetts adopted five annual safety targets as required under the FAST Act. These targets are summarized below.

**Commonwealth of Massachusetts Safety Targets** 

Performance Measure	State Target
Total Number of Fatalities	Reduce Total Number of Fatalities to 352 or less statewide at the current rate of -0.8%/year
Rate of Fatalities per 100 Million Vehicle Miles Traveled (VMT)	Reduce the Rate of Fatalities to 0.61/100 million VMT or less statewide at the current rate of -1.56%/year
Total Number of Serious Injuries	Reduce Total Number of Serious Injuries to 2896 or less statewide at the current rate of -3.65%/year
Rate of Serious Injuries per 100 Million VMT	Reduce the Rate of Serious Injuries to 5.01/100 million VMT or less statewide at the current rate of -4.42%/year
Total Number of Combined Serious Injuries and Fatalities for Non- motorized Modes	Do Not Exceed the Current Average of 541 for Combined Serious Injuries and Fatalities for Non- motorized Modes

The Pioneer Valley MPO was required to establish Safety targets by February 27, 2018. The MPO elected to support the State's Safety targets as summarized above at their meeting on January 23, 2018. Additional MPO action will be required by no later than November 16, 2018 to adopt regional targets for the PM2 and PM3 federal rules. The UPWP includes specific tasks to support the performance based planning and programming for the Pioneer Valley MPO.

#### CONFORMITY WITH THE REGIONAL TRANSPORTATION PLAN

All projects in the TIP come from the 2016 Regional Transportation Plan (RTP). All regionally significant projects included in the TIP were previously included in the air quality analysis completed for the conforming RTP. Because projects in the TIP come from the conforming RTP

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and all regionally significant RTP projects for 2019 through 20223 (both Federal and Non-Federal Aid) are programmed in the TIP, the same air quality analysis utilized for the RTP can be used for the TIP. Since most all of Massachusetts (with limited exceptions) was designated on 5/21/12 by the United States Environmental Protection Agency as "unclassifiable/attainment" for the latest ozone standard, a conformity determination for the Pioneer Valley 2019 - 2023 TIP is only required for Carbon monoxide. Further details and background information are provided in Chapter 8.

#### METROPOLITAN PLANNING ORGANIZATION

The Pioneer Valley Metropolitan Planning Organization (MPO) is responsible for developing the TIP. The MPO is comprised of ten members including four independently operating agencies and six locally elected officials:

Name Title

Stephanie Pollack Secretary and CEO of the Massachusetts Department of Transportation

Jonathan L. Gulliver Administrator of the Massachusetts Department of Transportation Highway

Division

Walter Gunn Chairman of the Pioneer Valley Executive Committee

Mayor David Narkewicz Chairman of the Pioneer Valley Transit Authority Advisory Board

Mayor Richard Kos Mayor of Chicopee (Center Tier)
Mayor Alexander Morse City of Holyoke (Central Tier)
Mayor Brian P. Sullivan City of Westfield (Southern Tier)

Douglas Slaughter Amherst Board of Selectmen (Northern Tier)
George Archible Belchertown Board of Selectmen (Eastern Tier)
Charles Kaniecki Southampton Board of SelectmenWestern Tier

Rick Sullivan Economic Development Council of Western Massachusetts

**Alternates** 

Mayor Domenic Sarno Mayor of Springfield (Center Tier)

Mayor William C. Reichelt City of West Springfield (Southern Tier)

Vacant Northern Tier

Carmina Fernandes Ludlow Board of Selectmen (Eastern Tier)
Roger Fuller Chesterfield Board of Selectmen (Western Tier)

Ex-Officio (Non-Voting)

Jeff McEwen Federal Highway Administration
Mary Beth Mello Federal Transit Administration

Sandra Sheehan Pioneer Valley Transit Authority Administrator

James Czach Chairman – Pioneer Valley Joint Transportation Committee

#### **DEVELOPMENT OF THE TIP**

As the lead planning agency for the MPO, the PVPC accepts the responsibility for developing the TIP in a cooperative process with members of the MPO and the general public. The final TIP is voted on for endorsement at a formal meeting of the MPO. The endorsed TIP project listing is included in the State Transportation Improvement Program (STIP) verbatim and requires endorsement by the Governor.

The MPO relies on a transportation advisory committee, the Joint Transportation Committee (JTC) to carry out the cooperative process during TIP development. The JTC is a group of community appointed officials, MPO member representatives, public and private transportation providers, citizens, and special interest groups and agencies. The JTC establishes and recommends to the MPO procedures for submitting, prioritizing and selecting projects for the TIP. PVPC staff provides the technical support to conduct the TIP development activities for the JTC.

Below is a general outline of steps taken during the TIP development process.

- Project proponents (communities, MPO members, agencies) submit projects through the process outlined in Chapter 2 of the Massachusetts Project Development & Design Guidebook (2006)
- Projects are prioritized based on evaluation criteria by MPO staff, JTC representatives, and MassDOT Highway Division staff, and MassDOT staff at a posted meeting open to all.

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- The State (thru MassDOT) provides funding targets for all 13 Regional Planning Agencies in Massachusetts.
- JTC reviews and recommends projects by Transportation Evaluation Score (TEC) and readiness to the MPO.
- Draft TIP project listings are prepared by the MPO staff and distributed for review and comment to MPO members.
- MPO meets to make final decisions on the composition of the TIP and to recommend the Draft TIP for general public release as required by the MPO Public Participation Plan for the Pioneer Valley Region.
- Final Draft TIP is distributed for review, consultation and comment in accordance with the adopted MPO Public Participation Plan.
- Public meetings and news releases are conducted to promote public involvement and consultation.
- Comments are compiled and addressed where appropriate.
- Final TIP developed for the JTC's consideration and their recommendation to MPO.
- MPO meets to vote on final adjustments and endorsement of the TIP.
- Endorsed Regional TIPs are compiled by MassDOT to create the STIP.
- Secretary and CEO of MassDOT endorse the STIP (on behalf of the Governor) and submits the STIP to federal agencies for review and approval.
- Federally approved STIP is ready for state implementation (project advertisement).

Amendments and adjustments to the TIP are made on an as needed basis with the additional public review and input for formal amendments only.

#### **CONGESTION MANAGEMENT PROCESS (CMP)**

Congestion Management Process means a systematic approach required in transportation management areas (TMAs) that provides for effective management and operation, based on a cooperatively developed and implemented metropolitan-wide strategy, of new and existing transportation facilities eligible for funding under title 23 U.S.C., and title 49 U.S.C., through the use of travel demand reduction and operational management strategies.

# 701 CMR 7.00 USE OF ROAD FLAGGERS AND POLICE DETAILS ON PUBLIC WORKS PROJECTS

701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any public works project that is performed within the limits of, or that impact traffic on, any public road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority.

For all projects contained in the TIP, the Commonwealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines.

By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation.

This information and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website:

http://www.MassDOT.state.ma.us/Highway/flaggers/main.aspx

#### 23 CFR 450.314(H) COOPERATIVLEY SHARE PERFORMANCE DATA

The MPO(s), State(s), and the providers of public transportation shall jointly agree upon and develop specific written provisions for cooperatively developing and sharing information related to transportation performance data, the selection of performance targets, the reporting of performance targets, the reporting of performance to be used in tracking progress toward attainment of critical outcomes for the region of the MPO (see § 450.306(d)), and the collection of data for the State asset management plan for the NHS for each of the following circumstances:

- (i) When one MPO serves an urbanized area,
- (ii) When more than one MPO serves an urbanized area, and
- (iii) When an urbanized area that has been designated as a TMA overlaps into an adjacent MPA serving an urbanized area that is not a TMA.
- (2) These provisions shall be documented either:
- (i) As part of the metropolitan planning agreements required under (a), (e), and (g) of this section, or
- (ii) Documented in some other means outside of the metropolitan planning agreements as determined cooperatively by the MPO(s), State(s), and providers of public transportation.

#### PROJECT PRIORITY CRITERIA AND SELECTION

MassDOT developed a process and set of criteria to prioritize the region's TIP projects which was modified and endorsed by the MPO. In 2014 PVPC with the assistance of the JTC completed and comprehensive update to the TEC for the PVMPO. The purpose of the update was to bring the TEC up to the current set forth by MAP -21. All projects included in the TIP have been evaluated and assigned a priority value or rating. This process is used as a management tool to identify projects of regional priority and program them accordingly in the TIP.

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#### TEC SCORING SUMMARY

System Preservation, Modernization and Efficiency	Livability	Mobility	Smart Growth and Economic Development	Safety and Security	Environment and Climate Change	Quality of Life	Environmental Justice and Title VI
Improves Substandard Pavement	Design is consistent with Complete Streets policies	Improves efficiency, reliability and attractiveness of public transit	Encourages development around existing infrastructure	Reduces number and severity of collisions	Preserves floodplains and wetlands	Enhances or preserves greenways and blueways	Reduces and limits disproportionate impacts on an EJ community
8	3	4	2	7	1	1	0.5
Improves Intersection Operations	Provides multi-modal access to a downtown, village center, or employment center	Improves existing peak hour LOS	Prioritizes transportation investments that support land use and economic development goals	Promotes safe and accessible pedestrian and bike environment	Promotes green infrastructure and low impact development to reduce stormwater impacts	Improves access to parks, open lands and open space	Reduces and limits disproportionate impacts on Title VI community
9	2	6	1	5	2	1	0.5
In a Congestion Management Process Area	Reduces auto-dependency Reduces traff	Reduces traffic congestion	Provides services to a TOD, TND or cluster development district	Improves emergency response	Reduced impervious surfaces	Improves access to jobs	Improves transit for EJ populations
5	2	7	0.5	4	0.5	2	1
	Project serves a targeted development site		Supports mixed-use downtowns and village centers		Protects or enhances environmental assets	Preserves historical and cultural resources	Improves transit for Title VI populations
	2		0.5		0.5	0.5	Н
	Completes off-road bike and ped network		Improves Intermodal Connections		Supports Brownfield redevelopment	Preserves prime agricultural land	Creates an EJ Burden
	ĸ		4		0.5	0.5	ΐ
			Reduces congestion on freight routes		Improves air quality	Provides safe and reliable access to education	Creates an Title VI Burden
			2		1	0.5	-5
					Reduces CO2 emissions	Supports designated scenic byways	
						0.5	
					Promotes mode shift 1	Implements ITS Strategies 2	
					Improves fish and wildlife	Improves Network Wavfinding	
					- T	1	
					Supports Green Communities	Health Impact Assessment	
					0.5	1	
					Improves storm resilience	Length of Time Project has been in queue for TIP funding	
					3	1	
Maximum Score							
19	9 12	17	10	16	12	11	3

#### PROJECT INITATION

In the fall of 2017 MassDOT rolled out there new project intake tool MaPIT, this tool has integrated the entire project initation process into an online portal wich both streamlines and modernizes the project development process. The steps listed below are the same for the project development process, however these steps are now completed online instead of on paper.

The Project Needs Form (PNF) is the first document completed at the start of the project development process. The PNF provides sufficient material to understand the transportation need(s), and results in one of the following three outcomes:

- Verification of the problem, need, or opportunity to enable it to move forward into design;
- Determination of the level of further project planning warranted; or,
- Dismissal of a project from further consideration.

The next step in the project development process involves summarizing the findings and direction defined in a Project Initiation Form (PIF) used by the Project Review Committee (PRC) and the MPO for project review and evaluation. The PIF will include the following information to be documented by the proponent:

- Project Type and Description, including locus map
- Summary of Project Planning Process
- Preliminary identification of the Project Category for review and programming purposes
- Definition of the proposed project management responsibility
- Definition of an interagency (including local boards) coordination plan
- Definition of a public outreach plan for the design process
- Project Need Form or Project Planning Report as an attachment
- Transportation Evaluation Criteria as an attachment

The project intake tool (MaPIT) can be found at http://massdot.maps.arcgis.com/home/index.html

#### MASSDOT GREENDOT POLICY

MassDOT launched its GreenDOT initiative on June 2, 2010. GreenDOT was developed to assure a coordinated approach to sustainability and to integrate sustainability into the responsibilities and decision-making of all MassDOT employees. The following three mutually-reinforcing goals form the foundation of GreenDOT:

- Reduce greenhouse gas (GHG) emissions
- Promote the healthy transportation modes of walking, bicycling, and public transit
- Support smart growth development

The initiative is a comprehensive response to a range of state and MassDOT laws, policies and initiatives including: the Global Warming Solutions Act, the Green Communities Act, the Healthy Transportation Compact, Leading by Example, YouMoveMassachusetts, and Complete Streets. The Global Warming Solutions Act requires Massachusetts to reduce economy wide GHG emissions: 10% -25% below 1990 levels by 2020 and an 80% reduction below 1990 levels by

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2050. The transportation sector is the largest GHG emitter, producing 31% of 1990 emissions and projected to produce 38% of 2020 emissions. GreenDOT also incorporates a statewide mode shift goal to triple the percentage of trips made by bicycling, transit and walking.

GreenDOT is also comprised on an additional by seven goals that can be tied to regional planning efforts. In the Pioneer Valley region, these goals and their recommended strategies have been incorporated into the new Transportation Evaluation Criteria (TEC) used to prioritize transportation improvement projects included as part of the TIP. The Tec is described in greater detail in Chapter 10 of the RTP. Table 1 summarizes the seven GreenDOT goals, their associated strategies and how they are addressed in the TEC for the Pioneer Valley.

**Table 1 Integration of GreenDOT Goals into TIP** 

Associated Strategy	RTP/TEC Integration
Providing secure and/or covered bicycle parking and shared used paths	Projects are eligible to receive up to 12 points for bicycle and pedestrian improvements in the "Livability" category. Projects receive 1 point for providing bicycle amenities such as bicycle parking.
Improving access to transit and other vital community services	Projects are eligible to receive up to 4 points by improving access to transit.
Designing complete street projects with municipalities	Complete Streets consistency is worth up to 3 points.
Encouraging Safe Routes to Schools projects	Projects that provide safe and reliable access to education receive 0.5 point.
Incorporating public health impacts in the transportation planning process	Projects that complete a Health Impact Assessment will receive 1 point.
Coordinating on regional and statewide bicycle and pedestrian planning efforts.	Many "Livability" subcategories in the TEC support regiona and statewide bicycle and pedestrian planning efforts.
Supporting Bike Share programs locally and regionally.	Projects can receive 2 points for being part of a locally adopted Bike Share Program.
Prioritizing critical pedestrian and bicycle network gaps, i.e. Bay State Greenway	Critical Gaps are identified as part of PVPC's Regional Bicycle Linkages Map. Projects that provide connections to regional bikeways/walkways receive 1 point.
Improving bicycle and pedestrian counts	PVPC collects bicycle and pedestrian movements as part of all intersection turning movement counts.
r - Reduce Greenhouse Gas Emissions & Imp	
Associated Strategy	RTP/TEC Integration
Developing projects to improve air quality	Projects that demonstrate improvements to air quality can receive up to 1 point.
Analyzing GHG reduction strategies in transportation improvement projects and tracking progress	PVPC performs GHG analysis for all proposed RTP and TIP projects.
Setting regional goals for reducing VMT (travel demand)	Projects that demonstrate a significant reduction in single occupant vehicle use will receive 1 point.
Analyzing fleet fuel usage and supporting retrofits and procurement of alternative fuel vehicles	The RTP supports the use of alternatively fueled vehicles. PVTA has hybrid transit vehicles and is in the process of purchasing electric buses.

Supporting alternative fuels vehicle infrastructure	PVTA is in the process of purchasing an electric vehicle charging station.
Increasing bus and transit route efficiency	The PVPC has an ongoing task in its UPWP to study transit route efficiency.
Promoting anti-idling policies and educational outreach	Not specifically addressed in the TEC but included as a Need in the RTP
nergy - Consume Less Energy & Increase Re	
Associated Strategy	RTP/TEC Integration
Evaluating outdoor lighting and traffic signal systems, and retrofitting where feasible	Upgrades to traffic signal equipment can be worth up to 6 points.
Planning for the implementation of energy efficient measures and renewable energy	The RTP incorporates strategies from the Pioneer Valley Clean Energy Plan.
projects	•
	n Maintenance & Enhance Ecological Performance
Associated Strategy	RTP/TEC Integration
Implementing sustainable stormwater management	Up to 2.5 points can be received through the use of green infrastructure and the reduction of impervious surfaces to manage stormwater.
Protecting and restoring native landscaping, woodland, and urban tree coverage	Projects that protect or enhance environmental assets receive 0.5 point.
Implementing sustainable road salt and sanding practices	Included as a strategy in the RTP.
Designing landscapes for wildlife habitat restoration, safe migration, and accommodation	Improvements to stream crossings and culverts that improve fish and wildlife passage receive 1 point.
Reducing outdoor light pollution	Not specifically addressed.
Advocating for urban trees into Complete Streets designs/studies	Complete Streets consistency is worth up to 3 points.
laterials - Improve Lifecycle Impacts of Invest	tments & Purchase Environmentally Preferred Products
Associated Strategy	RTP/TEC Integration
Planning for climate resiliency in the development of projects	Projects that preserve floodplains receive 0.5 point.  Projects that improve storm resilience in areas prone to flooding receive up to 3 points.
Supporting the use and identify appropriate applications for warm mix and recycled content paving materials	Not specifically addressed.
/aste - Achieve Zero Solid Waste Disposal	
Associated Strategy	RTP/TEC Integration
Identifying projects with zero construction waste diversion goals	Not specifically addressed.
Implementing regional litter prevention programs with their respective municipalities	Not specifically addressed.
later - Use Less Water & Improve Ecological	Function of Water Systems
Associated Strategy	RTP/TEC Integration
Planning projects that minimize impacts on surface water and enhance wetlands flood storage capacity	Projects that preserve wetlands receive 0.5 point.
Considering sea level rise and storm surge projections in project planning	Projects that improve storm resilience in areas prone to flooding receive up to 3 points.

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#### PROJECT SELECTION AND PROGRAMMING

The project priority ratings were applied in conjunction with a project's anticipated advertisement schedule. The funding targets provided by the MassDOT to develop the four-year program of the TIP were applied for each year in order to develop this fiscally constrained document. A project was not considered for scheduling in a year earlier than its anticipated schedule regardless of the priority rating. For projects that are expected to be ready to go in the first year of the TIP the top priority projects for that year were funded under the federal aid categories, since these funds are most secure. Once the federal aid funds were completely programmed, non-federal aid funds were programmed to priority projects. This initial assignment procedure was applied to each year of the TIP and is subject to change as the TIP is developed and refined by members of the MPO and the JTC.

#### AMENDMENT/ADJUSTMENT OF THE TIP

Amendment means a revision to a long-range statewide or metropolitan transportation plan, TIP, or STIP that involves a major change to a project included in a metropolitan transportation plan, TIP, or STIP, including the addition or deletion of a project or a major change in project cost, project/project phase initiation dates, or a major change in design concept or design scope (e.g., changing project termini or the number of through traffic lanes or changing the number of stations in the case of fixed guideway transit projects). Changes to projects that are included only for illustrative purposes do not require an amendment. An amendment is a revision that requires public review and comment and a redemonstration of fiscal constraint. If an amendment involves "non-exempt" projects in nonattainment and maintenance areas, a conformity determination is required.

Amendments requires formal MPO action, and must follow the requirements outlined in the Pioneer Valley Public Participation Plan (PPP). Additional information regarding the PPP can be found at <a href="http://www.pvpc.org/content/pioneer-valley-public-participation-plan">http://www.pvpc.org/content/pioneer-valley-public-participation-plan</a>

Program adjustments can be conducted without formal MPO action in order to minimize constraints on programming projects. Minor adjustments could include such actions as moving projects between Year 1 and Year 2, and minor fluctuations in project description, costs and funding source. This action can be accomplished through an agreed upon administrative action.

#### **DESCRIPTION OF FUNDING SOURCES**

**Interstate Maintenance** (IM) - Resurfacing, restoration and rehabilitation are eligible activities for maintaining Interstate facilities. Reconstruction is also eligible if it does not add capacity. However, high-occupancy-vehicle (HOV) and auxiliary lanes can be added. Funding: federal - 90 %, state - 10 %.

**Surface Transportation Block Grant Program** (STBGP) - This program formerly the Surface Transportation Program (STP) is a flexible funding program that can be used for projects that preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals. Funding: federal - 80%, state - 20%.

**Transportation Alternatives Program** (TAP) - The TAP provides funding for programs and projects defined as transportation alternatives, including on- and off-road pedestrian and bicycle

facilities, infrastructure projects for improving non-driver access to public transportation and enhanced mobility, community improvement activities, and environmental mitigation; recreational trail program projects; safe routes to school projects; and projects for planning, designing, or constructing boulevards and other roadways largely in the right-of-way of former Interstate System routes or other divided highways. Funding: federal - 80%, state - 20%

Congestion Mitigation and Air Quality Improvement Program (CMAQ) - These funds are directed towards transportation projects and programs which reduce transportation-related emissions. These funds are to assist areas designated as nonattainment and maintenance under the Clean Air Act Amendments of 1990. These projects will contribute to meeting the attainment of National Ambient Air Quality Standards (NAAQS). Funding: federal - 80%, state - 20%.

**Highway Safety Improvement Program** (HSIP) – The HSIP requires a data-driven, strategic approach to improving highway safety on all public roads that focuses on performance. The goal of HSIP is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned public roads and roads on tribal lands. Funding: federal - 80%, state - 20%. HSIP can be funded 90/10 and even 100% federal in certain circumstances.

**Bridges** (BR) - Funds the replacement or repair of structurally deficient or unsafe bridges in urban and rural areas. All bridges, both on and off the federal aid roadway system are eligible for funding. Funding: federal - 80%, state - 20%.

**National Highway Performance Program** (NHPP) - The NHPP provides support for the condition and performance of the National Highway System (NHS), for the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS. NHPP projects must be on an eligible facility and support progress toward achievement of national performance goals for improving infrastructure condition, safety, mobility, or freight movement on the NHS, and be consistent with Metropolitan and Statewide planning requirements. Funding: federal - 80%, state - 20%.

**High Priority Projects** (HPP) High Priority Projects are congressionally earmarked projects that have been deemed as a high priority for the state were the project is located. Funding: federal - 80%, state – 20%

**Section 115 Funds** Included in the Transportation bill as congressional earmarks, each year the earmarks are given a designated funding category. In FFY2005 the funding designation for these projects was Section 115 Funds. Funding: federal – 100%, state – 0%

**Section 117 Funds** Included in the Transportation bill as congressional earmarks, each year the earmarks are given a designated funding category. In FFY2006 the funding designation for these projects was Section 117 Funds. Funding: federal – 100%, state – 0%

**Section 129 Funds** Congressional Earmarks for FFY 2008. Funding: federal – 100%, state – 0%

**Section 125 Funds** Congressional Earmarks for FFY 2009. Funding: federal – 100%, state – 0%

In compliance with FHWA guidelines projects with federal earmarks are only programmed in the FY 2014 to FY 2017 TIP if the total funding is adequate for project implementation. The remaining earmarked projects will be included in appendix Z for informational and tracking purposes.

**Non-Federal Aid** (NFA) - This funding category contains all those projects not receiving federal funds. Various categories of state funding are included in this group including bikeways, State Aid

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(Chapter 90), and highway construction and maintenance (Chapter 497). This category is included in the TIP for informational purposes only. Funding: federal - 0 %, state - 100 %.

**Section 5339 Bus and Bus Facilities** – (5309 SAFETEA-LU) Program provides capital funding to replace, rehabilitate, and purchases buses and related equipment and to construct bus related facilities. Funding: Federal - 80%, State - 20%

**Section 5307 Capital** - This program provides grants to Urbanized Areas1 (UZA) for public transportation capital, planning, job access and reverse commute projects, as well as operating expenses in certain circumstances. These funds constitute a core investment in the enhancement and revitalization of public transportation systems in the nation's urbanized areas, which depend on public transportation to improve mobility and reduce congestion. Federal Share is 80% for Capital Assistance, 50% for Operating Assistance, and 80% for Americans with Disabilities Act (ADA) no-fixed-route paratransit service, using up to 10% of a recipient's apportionment.

**Section 5310** - Section 10 pertains to transportation facilities meeting special needs of the elderly and disabled. Funds allocated under Section 16(b) (2) provide private non-profit corporations and associations with grants and loans to improve the mobility of the elderly and disabled. In Massachusetts, 16(b) (2) funds are administered at the state level by the MASSDOT. These funds typically are used for the purchase of capital items, including lift-equipped vans. Mobility Assistance Program (MAP) funds are intended for use by public agencies, such as municipal councils on aging and the Pioneer Valley Transit Authority (PVTA) to provide van service to elderly and/or disabled persons.

**Section 5311** - These funds are made available exclusively for public transportation projects outside the urbanized areas. Both capital and operating expenses are eligible.

#### TRANSPORTATION SYSTEM OPERATING AND MAINTENANCE COSTS

The FFY 2019 - 2023 TIP is consistent with the Regional Transportation Plan (RTP) for the Pioneer Valley Region. Tables 2 and 3 presents the estimates outlined in the RTP of annual expenditures associated with operating and maintaining the transportation system. These estimates represent past expenditures and do not reflect costs associated with maintaining a constant level of system performance.

**Table 2 Transportation Operating and Maintenance Expenditures** 

	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	GRAND TOTAL
Total Available for Programming in	Total	Total	Total	Total	Total	Total
the Pioneer Valley RTP	\$ 420,177,748	\$ 426,618,217	\$ 520,221,270	\$ 582,504,200	\$ 623,968,064	\$ 2,573,489,499
Statewide Interstate Maintenance	\$ 29,750,182	\$ 28,157,124	\$ 35,185,257	\$ 39,841,190	\$ 42,920,276	\$ 175,854,029
Statewide NHS	\$ 19,572,131	\$ 18,955,373	\$ 23,686,712	\$ 26,821,085	\$ 28,893,926	\$ 117,929,227
Statewide Bridge	\$ 105,433,448	\$ 102,111,025	\$ 127,598,354	\$ 144,482,963	\$ 155,649,185	\$ 635,274,975
Statewide Infrastructure	\$ 4,219,341	\$ 4,086,381	\$ 5,106,359	\$ 5,782,064	\$ 6,228,925	\$ 25,423,070
Remaining Statewide Programs	\$ 96,040,886	\$ 101,493,887	\$ 126,827,176	\$ 143,609,738	\$ 154,708,473	\$ 622,680,160
NFA Bridge Preservation	\$ 54,049,500	\$ 54,860,243	\$ 55,670,985	\$ 56,481,728	\$ 57,292,470	\$ 278,354,926
Regional Discretionary Funding	\$ 111,112,260	\$ 116,954,184	\$ 146,146,427	\$ 165,485,432	\$ 178,274,809	\$ 717,973,112

Source: Regional Transportation Plan, updated 2016

**Table 3 Transit Operating and Maintenance Expenditures** 

	Estimated Transit Operating Revenues 2016 - 2040									
	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	<b>Grand Total</b>				
State Contract Assistance	\$ 125,723,298	\$ 145,747,760	\$ 168,961,600	\$ 195,872,803	\$ 227,070,262	\$ 863,375,723				
Local Assessments	\$ 43,637,997	\$ 49,372,389	\$ 55,860,326	\$ 63,200,831	\$ 71,505,940	\$ 283,577,483				
5307 Federal Urbanized Area Formula	\$ 53,120,529	\$ 57,917,522	\$ 62,393,619	\$ 67,215,646	\$ 72,410,341	\$ 313,057,657				
5339 Federal **	\$ 3,614,988	\$ 3,937,914	\$ 4,242,253	\$ 4,570,110	\$ 4,923,307	\$ 21,288,572				
5310 Federal Ederly & Disabled	\$ 2,704,105	\$ 2,913,090	\$ 3,138,225	\$ 3,380,759	\$ 3,642,038	\$ 15,778,217				
Farebox	\$ 41,119,964	\$ 45,399,763	\$ 50,125,006	\$ 55,342,057	\$ 61,102,103	\$ 253,088,893				
Advertising, other revenue	\$ 2,948,172	\$ 3,255,020	\$ 3,593,805	\$ 3,967,851	\$ 4,380,829	\$ 18,145,677				
Available for Programming in Pioneer Valley RTP	\$ 272,869,053	\$ 308,543,458	\$ 348,314,834	\$ 393,550,057	\$ 445,034,820	\$ 1,768,312,222				
	Estim	ated Capital Re	venues							
	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	<b>Grand Total</b>				
RTACAP	\$ 20,285,825	\$ 22,314,408	\$ 24,545,848	\$ 27,000,433	\$ 29,700,476	\$ 123,846,990				
ITC Cap Program	\$ 1,145,277	\$ 1,259,805	\$ 1,385,785	\$ 1,524,364	\$ 1,676,800	\$ 6,992,031				
Federal Matching grants	\$ 63,410,806	\$ 69,751,887	\$ 76,727,075	\$ 84,399,783	\$ 92,839,761	\$ 387,129,311				
Total Transit Capital Funds for Programming in PV RTP	\$ 84,841,908	\$ 93,326,099	\$ 102,658,709	\$ 112,924,579	\$ 124,217,037	\$ 517,968,332				
Grand Total of Revenue	\$ 357,710,961	\$ 401,869,557	\$ 450,973,543	\$ 506,474,636	\$ 569,251,857	\$ 2,286,280,554				

Source: Regional Transportation Plan, updated 2016

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#### II. PUBLIC PARTICIPATION SUMMARY AND CHANGES

In accordance with 23 CFR 450.316(a)) The MPO shall develop and use a documented participation plan that defines a process for providing individuals, affected public agencies, representatives of public transportation employees, public ports, freight shippers, providers of freight transportation services, private providers of transportation (including intercity bus operators, employer-based commuting programs, such as carpool program, vanpool program, transit benefit program, parking cash-out program, shuttle program, or telework program), representatives of users of public transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, and other interested parties with reasonable opportunities to be involved in the metropolitan transportation planning process.

And 23 CFR 450.316(b) In developing metropolitan transportation plans and TIPs, the MPO should consult with agencies and officials responsible for other planning activities within the MPA that are affected by transportation (including State and local planned growth, economic development, tourism, natural disaster risk reduction, environmental protection, airport operations, or freight movements) or coordinate its planning process (to the maximum extent practicable) with such planning activities. In addition, the MPO shall develop the metropolitan transportation plans and TIPs with due consideration of other related planning activities within the metropolitan area, and the process shall provide for the design and delivery of transportation services within the area that are provided by:

The DRAFT FFY 2019 - 2023 TIP underwent a public review and comment period consistent with the Pioneer Valley Metropolitan Planning Organizations Public Participation Process. This began April 27, 2018 and continued until May 18, 2018. During this time, comments were received from communities, JTC, PVTA, PVPC, MassDOT, and FHWA. A public hearing was held on May 9, 2018 as part of the JTC meeting. Below is a summary of the comments received during the public review and comment period.

#### **Table 4 Comments Recieved During Public Review**

In addition to the above changes, the Pioneer Valley Transit Authority requested that the following be included: The Pioneer Valley Transit Authority, the FTA Section 5307(c) applicant, has consulted with the Pioneer Valley Planning Commission and concurs that the TIP satisfies the public hearing requirements that pertain to the development of the Program of Projects for regular Section 5307, Urbanized Area Formula Program, grant application including the provision for public notice and the time established for public review and comment.

For FTA projects that are not routine; i.e. Section 5307 applications that required environmental assessment or an environmental impact statement, the public involvement provided herein for TIP review is not sufficient. Additional public involvement will be required by FTA prior to grant approval, as presented in the joint FHWA/FTR environmental regulations, 23 CFR-Part 771.

The Federal Aid (FA) and Non-Federal Aid (NFA) elements were separated into two components. The FA component of the TIP was endorsed by the MPO and the NFA component is included in the main body of the TIP, however, is not subject to federal planning rules.

# **III. FEDERAL COMPONENT**

Federal Component \_\_\_\_\_\_25

#### PIONEER VALLEY MPO ENDORSEMENT

#### CERTIFICATION OF THE 3-C PLANNING PROCESS

In accordance with the Metropolitan Planning Final Rule, the Pioneer Valley MPO has completed its review and hereby certifies that the conduct of the 3-C Transportation Planning Process complies with the requirements of CFR 450.334 and includes activities to support the development and implementation of this TIP, the Regional Transportation Plan, and subsequent project development activities, as necessary and to the degree appropriate.

To reinforce this self certification, the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) conducted a certification review of the Pioneer Valley MPO planning process in 2015. The two day on-site review was preceded by a desk audit of the major planning documents completed as part of the planning process. Based on the certification review, the transportation planning process for the Pioneer Valley region was found to substantially meet the requirements of 23 CFR 450 Subpart C and 49 CFR 613.

#### PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on May 23, 2017 and discussed the following item for endorsement:

#### CERTIFICATION OF THE 3C PLANNING PROCESS

Concurrent with the submittal of the proposed TIP to the FHWA and the FTA, the MPO shall certify that the metropolitan transportation planning process is being carried out in accordance with all applicable requirements including:

- 1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
- 2. In non-attainment and maintenance areas, sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 U.S.C. 7504, 7506 (c) and (d)) and 40 CFR part 93;
- 3. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
- 4. 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- 5. Section 1101(b) of the SAFETEA-LU (Pub. L. 109-59) and 49 CFR part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
- 6. 23 CFR Part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts
- 7. The provisions of US DOT and of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts 27, 37, and 38;
- 8. The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- 9. Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender; and
- 10. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.
- 11. Anti-lobbying restrictions found in 49 USC Part 20. No appropriated funds may be expended by a recipient to influence or attempt to influence an officer or employee of any agency, a Member of Congress, in connection with the awarding of any Federal contract.

#### 310 CMR 60.05: GLOBAL WARMING SOLUTIONS ACT REQUIREMENTS - ENDORSEMENT

The signatures below signify that all members of the Pioneer Valley Region's Metropolitan Planning Organization, or their designees, have met on May 23, 2017 and discussed the following item for endorsement:

This will certify that the 2018 – 2022 TIP for The Pioneer Valley Region's MPO is in compliance with all applicable requirements in the State Regulation 310 CMR 60.05: Global Warming Solutions Act Requirements for the Transportation Sector and the Massachusetts Department of Transportation. The regulation requires the Metropolitan Planning Organizations (MPOs) to:

- 1. 310 CMR 60.05, 3(b)(1)(a): Evaluate and track the GHG emissions and impacts of RTPs and TIPs;
- 2. 310 CMR 60.05, 3(b)(1)(b): In consultation with MassDOT, develop and utilize procedures to prioritize and select projects in RTPs, TIPs, and STIPs based on factors that include GHG emissions and impacts;
- 3. 310 CMR 60.05, 3(b)(1)(c): Quantify net GHG emissions and impacts resulting from the projects in RTPs and TIPs and have made efforts to minimize GHG emissions and impacts;
- 4. 310 CMR 60.05, 3(b)(1)(d): Determine in consultation with the RPA that the appropriate planning assumptions used for GHG emissions modeling are consistent with local land use policies, or that local authorities have made documented and credible commitments to establishing such consistency;
- 5. 310 CMR 60.05, 4(a)(2)(a): Develop RTPs and TIPs;
- 6. 310 CMR 60.05, 4(a)(2)(b): Ensure that RPAs are using appropriate planning assumptions;
- 7. 310 CMR 60.05, 4(a)(2)(c): Perform regional GHG emissions analysis of RTPs and TIPs;
- 8. 310 CMR 60.05, 4(a)(2)(d): Calculate GHG emissions for RTPs and TIPs;
- 9. 310 CMR 60.05, 4(a)(2)(e): Develop public consultation procedures for GHG reporting and related GWSA requirements consistent with current and approved regional public participation plans;
- 10. 310 CMR 60.05, 4(c): Prior to making final endorsements on the RTPs, TIPs, STIPs, and projects included in these plans, MassDOT and the MPOs shall include the GHG Assessment and information on related GWSA activities in RTPs, TIPs, and STIPs and provide an opportunity for public review and comment on the RTPs, TIPs, and STIPs.
- 11. 310 CMR 60.05, 6(a): After a final GHG assessment has been made by MassDOT and the MPOs, MassDOT and the MPOs shall submit MPO-endorsed RTPs, TIPs or projects within 30 days of endorsement to the Department for review of the GHG assessment.

#### **FUNDING INFORMATION**

#### **FEDERAL AID TARGETS**

The MassDOT provided the revised PVPC federal aid highway funding targets for the region on February 21, 2018. The targets are provided for FFYs 2019 through 2023 and represent both the federal aid portion and respective state match. (See Appendix A for additional information).

During the development of the TIP PVPC staff worked with MassDOT, PVTA, Municipalities with active projects, and project designers to develop current year project cost estimates and design status. Once the draft TIP was programmed, Highway projects funded with regional target funds are inflated four percent per year starting in FFY2019 in order to reflect year of expenditure (YOE).

Federal financial resources for transit are projected using appropriated amounts provided by the FTA for the funding categories of Sections 5307 and 5311. Section 5309 funds are based on estimates of what will be reasonably available. Due to the discretionary nature of these categories, project line items are maintained in the fourth year of the TIP until an actual grant award is tendered. Section 5310 is programmed through the state and is awarded on a discretionary basis. Projections are based on past experience and the funding level provided by the State.

#### FEDERAL AID FINANCIAL CONSTRAINT

The federal aid element of the TIP is financially constrained according to the definition in Federal Register 23 CFR Part 450.324. The federal aid projects programmed for this region reasonably meet the federal aid funding targets provided for the region. Only projects for which funds can reasonably be expected have been included. Table 5 (highway and Table 6 (transit) shows both these target amounts and the amounts programmed for highway projects during fiscal years 2019 - 2023. Projects that are not charged against the funding targets are not presented in the table. These projects include: Statewide items; and special funding projects. Table 4 shows the projected transit funds for FFY 2019 – 2022.

Table 5 Federal Highway Financial Plan

	2019	2020	2021	2022	2023	GRAND TOTAL
<b>Total Target Funds</b>	\$24,855,247	\$25,782,146	\$26,303,990	\$26,839,603	\$27,425,802	\$131,206,788
Total of Programmed	\$24,842,701	\$25,756,683	\$26,303,991	\$26,839,602	\$27,055,729	\$130,798,706
Programmed STP	\$20,980,734	\$21,656,807	\$21,859,991	\$23,339,602	\$23,555,729	\$111,392,863
Programmed HSIP	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$5,000,000
Programmed CMAQ	\$2,386,880	\$2,599,876	\$2,944,000	\$2,000,000	\$2,000,000	\$11,930,756
Programmed TAP	\$475,087	\$500,000	\$500,000	\$500,000	\$500,000	\$2,475,087
Difference	\$12,546	\$25,463	-\$1	\$1	\$370,073	\$408,082

The funding targets were programmed to projects according to project priority rating. Projects were programmed slightly beyond the program target with the understanding that the targets are not earmarks and program levels are expected to fluctuate.

The TIP reflects an emphasis on the maintenance and operation of the current transportation system with the ability to provide capital improvements. The federal aid program for each year consists of almost entirely of maintenance projects for the present transportation system.

The transit program outlined in Table 6 represents both apportioned items as well as discretionary items. The total programmed amount represents both the federal, state and local contributions.

Table 6 Federal Transit Financial Plan

	2019	2020	2021	2022	2023	GRAND TOTAL
Transit Capitol Investment	\$29,699,181	\$27,353,435	\$31,285,699	\$29,265,958	\$29,195,129	\$146,799,402
5307	\$17,527,699	\$17,625,646	\$21,011,891	\$27,234,025	\$27,181,085	\$110,580,346
5309						\$0
5310						\$0
5311						\$0
5337						\$0
5339	\$1,836,620	\$7,377,789	\$10,038,808			\$19,253,217
5320						\$0
Other Federal						\$0
Other Non Federal	\$10,334,862	\$2,350,000	\$235,000	\$2,031,933	\$2,014,044	\$16,965,839

The transit projects programmed focus on maintaining and operating the present system while implementing the recommendations of the Comprehensive Service Analysis (CSA) completed in the spring of 2014. For more information regarding the CSA please go to PVTA website. <a href="https://www.pvta.com">www.pvta.com</a>.

THE GEOGRAPHIC DISTRIBUTION OF FEDERAL TARGET FUNDS IN THE PIONEER VALLEY METROPOLITAN PLANNING REGION – 2013 TO 2017

PVPC staff reviewed historical project programming for the Transportation Improvement Program (TIP) in order to show the geographic distribution of Federal Target funds in the Pioneer Valley Metropolitan Planning Organization (MPO) region. PVPC staff reviewed year 1 section 1A (Federal Aid Target Projects) for the past 5 years (2013 through 2017) TIP. Table 7 provides the results of this analysis broken out by MPO sub-region while Table 2 provides the results broken out by municipality. Please see page 3 for MPO region map and additional information regarding the composition of the MPO.

As can be seen in Tables 7 and 8 the PVMPO has successfully programmed 34 projects in 19 communities over the past 5 years. The total funding commitment for these projects was just over \$90 million. During this time the PVMPO averaged \$18 million per year in funding. The average cost per project was \$2.6 million (increase from \$2.4 million last year) or 6.8 projects per year on average. Over the past five years, the PVMPO has committed federal funds for transportation projects in almost half (44%) of the communities in the region.

Table 7 Projects Completed with Federal Target Funds by MPO Sub-Region (2014-2018)

<b>MPO Region</b>	2014	2015	2016	2017	2018	Total	<b>Total Funds</b>		Popu	llation
						Projects		% Funds		
Sub-Region 1	3	2	2	1	1	9	\$19,491,147	20.38%	248,238	39.94%
Sub-Region 2	0	0	2	1	2	5	\$19,649,907	20.55%	107,425	17.28%
Sub-Region 3	3	1	0	2	4	10	\$18,631,567	19.48%	105,185	16.92%
Sub-Region 4	2	1	3	1	1	8	\$29,314,146	30.65%	132,675	21.35%
Sub-Region 5	0	1	0	1	1	3	\$8,556,000	8.95%	28,047	4.51%
Totals	8	5	7	6	9	35	\$95,642,767		621,570	

Source: PVPC TIP archives

As can be seen in Table 7, the distribution of funds across the region is similar to the distribution of population across the region. Sub-region 4 received 30% more funding than population over the past 5 years. This was due to the MPO commitment to fund two large projects, one in Belchertown (Route 181 reconstruction for \$9 million) and one in project in Pelham (Amherst Road reconstruction for \$7.2 million). At the request of the MPO, the Pelham project was split in half and funded over two years (2013 and 2015).

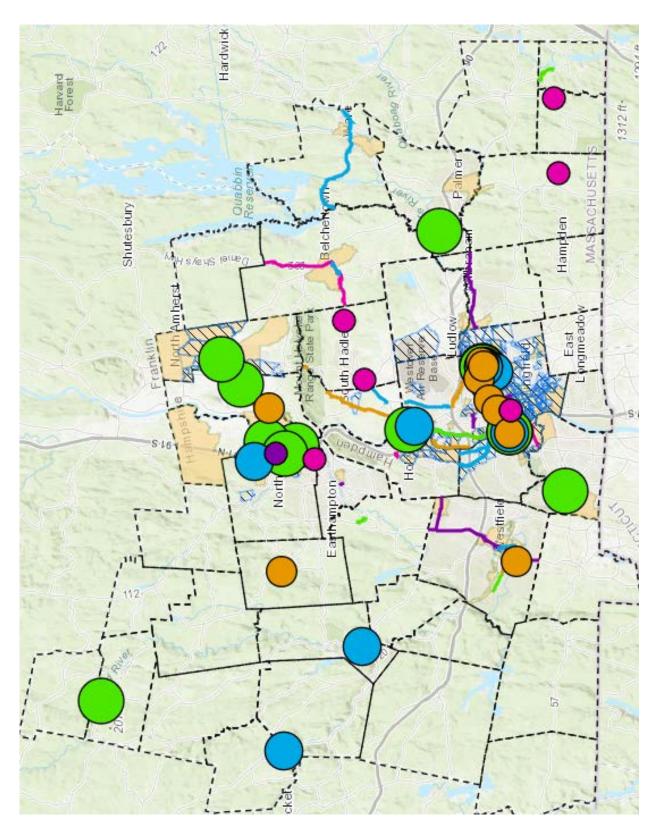
The PVMPO is committed to funding transportation improvement projects across the entire region. The community data provided in Table 8 shows the extent to which this has been achieved over the past 5 years. The PVMPO has accomplished this while supporting communities and projects of all shape and size. With the implementation of the new Transportation Evaluation Criteria (TEC) as well as other regional and state initiatives, the PVMPO is positioned to be able to continue to make decisions that will be equitable for the entire region.

Table 8 Projects Completed with Federal Target Funds by Municipality (2014-2018)

	2014	2015	2016	2017	2018	Total	Total Funds		Median
						Projects	40.000	% Funds	Income
Agawam					1	1	\$3,288,000	3.44%	\$63,561
Amherst				1	1	2	\$1,604,050	1.68%	\$52,537
Belchertown	1					1	\$9,551,728	9.99%	\$74,221
Blandford						0	\$0	0.00%	\$72,361
Brimfield			1			1	\$3,500,000	3.66%	\$82,365
Chester						0	\$0	0.00%	\$65,648
Chesterfield						0	\$0	0.00%	\$63,594
Chicopee	1					1	\$3,100,000	3.24%	\$47,276
Cummington		1				1	\$1,500,000	1.57%	\$50,521
East						0	\$0		
Longmeadow								0.00%	\$84,173
Easthampton	1					1	\$2,556,996	2.67%	\$56,927
Goshen				1		1	\$4,345,300	4.54%	\$69,219
Granby						0	\$0	0.00%	\$78,261
Granville						0	\$0	0.00%	\$75,208
Hadley		1			1	2	\$4,438,060	4.64%	\$74,737
Hampden						0	\$0	0.00%	\$78,722
Hatfield						0	\$0	0.00%	\$60,033
Holland					1	1	\$1,409,592	1.47%	\$64,868
Holyoke				1	1	2	\$3,983,493	4.16%	\$35,550
Huntington						0	\$0	0.00%	\$52,275
Longmeadow	1		1			2	\$3,512,048	3.67%	\$108,835
Ludlow				1		1	\$5,848,350	6.11%	\$61,410
Middlefield						0	\$0	0.00%	\$78,214
Monson						0	\$0	0.00%	\$66,389
Montgomery						0	\$0	0.00%	\$78,333
Northampton	2			1	2	5	\$10,032,461	10.49%	\$58,179
Palmer						0	\$0	0.00%	\$51,846
Pelham		1				1	\$4,200,000	4.39%	\$88,462
Plainfield						0	\$0	0.00%	\$57,188
Russell						0	\$0	0.00%	\$68,750
South Hadley						0	\$0	0.00%	\$62,803
Southampton					1	1	\$2,710,700	2.83%	\$68,693
Southwick				1		1	\$7,172,979	7.50%	\$81,967
Springfield	2	2	2	_		6	\$12,407,654	12.97%	\$34,731
Tolland	<del>-</del>	_	_			0	\$0	0.00%	\$85,750
Wales						0	\$0	0.00%	\$52,500
Ware						0	\$0		\$49,630
vvaic	<u> </u>					U	٦٥	0.00%	949,03U

Totals	8	5	7	6	9	35	\$95,642,767	100.00%	\$ 52,108
Worthington						0	\$0	0.00%	\$71,300
Williamsburg						0	\$0	0.00%	\$65,147
Wilbraham			1			1	\$1,292,428	1.35%	\$87,303
Westhampton						0	\$0	0.00%	\$79,583
Westfield			2		1	3	\$9,188,928	9.61%	\$60,845
West Springfield						0	\$0	0.00%	\$52,806

Source: PVPC TIP Archive



A higher resolution version of this figure can be found here: http://pvpc.maps.arcgis.com/apps/StorytellingTextLegend/index.html?appid=f54bf3b6dfd04033980 dcd9a898b85a3

#### IV. FEDERAL AID REGIONAL PROJECT LISTINGS

The following is a complete listing of the Pioneer Valley Federally Funded Transportation Improvement Projects for Fiscal Years 2019 - 2023.

#### ORGANIZATION OF PROJECT LISTINGS

Each project in the TIP contains the following information:

<u>MassDOT Project ID</u> - Project identification numbers given by the Massachusetts Highway Department.

<u>MassDOT Project Description</u> – Includes Town or city in which a project is located, and a description of work to be funded under the project.

<u>MassDOT District</u> – The MassDOT sub-Region were the project is located, for PVMPO projects will be in either District 1 or District 2.

**Funding Source** - The funding category from which funding is expected.

<u>Total Programmed Funds</u> - The total funding for the project under the specified funding source.

**Federal Funds** - The amount of federal dollars allocated for project construction.

Non-Federal Funds - The amount of non-federal dollars allocated to the project.

<u>Additional Information</u> – Provides additional project information including design status, Transportation Evaluation Criteria (TEC) Score, and YOE Cost.

Regional Target - The total combined Federal and State dollar amount provided for project funding.

<u>TEC Score</u> – This score is based on criteria developed rank the regional significant of each eligible TIP project

### Table 9 Summary of All Project Funded in Section 1 A Federal Aid Target Projects

SID 2019	Municipality	FFY	Project Description	District	Funding Sources	Total	Funds	Federal Funds	Non- Federal Funds	Additional Information
2019	Springfield	608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	STP	\$	1,886,880	\$ 682,406	\$ 170,602	Construction / (YOE \$1,886,880 STP) / 49.5 TEC / 25%
2019	Agawam	600513	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	2	STP	\$	2,516,438	\$1,567,980	\$ 391,995	Construction / (YOE \$2,516,438 STP) / 27 TEC / 25%
	Belchertown	608412	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	2	STP	\$	5,644,850	\$3,827,200		Construciton / (YOE \$5,644,850 STP) / 59 TEC / 25%
	Ware	607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	STP	\$	2,475,087	\$ 505,532		Construction / (YOE \$2,475,087) STP) / 55 TEC / 75%
2019	PVTA		P21 Express - Year 2 Operating		STP	\$	500,000	\$ 400,000	\$ 100,000	Operating year 2
2019	Holland	604962	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	2	STP	\$	2,919,446	\$2,335,557	\$ 583,889	Construction / (YOE \$2,919,446) STP) / 26.5 TEC / 25% - 25% Comment Received, cost increased from \$1,409,592
2019	Worthington	606912	Route 143 Reconstruction and Related Work - Phase I	1	STP	\$	8,900,000	\$7,120,000		Construction / (YOE \$8,900,000) STP / 41.5 TEC / 75% Project Phased Total project cost was \$16,300,000
					Programmed Target	\$	24,842,701 24,855,247			
2020					Difference	\$	12,546			

					Funding			Federal	Non- Federal	
SID	Municipality	FFY	Project Description	District	Sources	Total	Funds	Funds	Funds	Additional Information
2020	Westfield	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON	2	HSIP/STP/CMAQ/TAP	\$	7,599,876	\$ 972,893	\$ 108,099	Construction / (YOE \$7,599,876
			ROUTE 20, COURT STEET & WESTERN AVENUE,							STP) / 48.5 TEC / 25%
			LLOYDS HILL ROAD TO HIGH STREET/MILL STREET							
			INTERSECTION (PHASE II)							
2020	2020 Chicopee		CHICOPEE- RECONSTRUCTION & RELATED WORK ON	2	STP	\$	7,907,953	\$6,480,934	\$1,620,233	Construction / (YOE \$7,907,953
			FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO							STP) / 48.5 TEC / 25%
			SHAWINIGAN DR (2.0 MILES)							
2020	2020 Northampton	608236	NORTHAMPTON- RECONSTRUCTION OF DAMON	2	STP	\$	10,248,854	\$4,359,945	\$1,089,986	Construction / (YOE \$10,248,854
			ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES							STP) / 66.5 TEC / 75%
			DRAINAGE SYSTEM REPAIRS & SLOPE							
			STABILIZATION AT THE NORWOTTUCK RAIL TRAIL							
						\$	25,756,683			
					Target		25,782,146			
2021	ı				Difference		25,463			
2021	Springfield	608718		2	STP	\$	2,229,021	\$1,783,217	\$ 445,804	Construction / (YOE \$2,229,021
			BERKSHIRE AVENUE, COTTAGE AND HARVEY							STP) / 41.5 TEC Score / Pre 25%
			STREETS							
2021	Springfield	608782		2	STP	\$	1,944,000	\$1,555,200	\$ 388,800	Construction / (YOE \$1,944,000)
			COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS							STP) / 46.5 TEC Score / Pre 25%
			ROAD							
2021	Amherst	608084		2	STP	\$	3,621,863	\$1,044,709	\$ 261,177	Construction / (YOE \$3,621,863
			ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO							STP) / 53.5 TEC / 25%
			SOUTH PLEASANT STREET (0.8 MILES)							
2021	Northampton	607502	NORTHAMPTON- INTERSECTION IMPROVEMENTS	2	STP	\$	3,655,054	\$ 992,000	\$ 248,000	Construction / (YOE \$3,655,054
			AT KING STREET, NORTH STREET & SUMMER STREET							STP, CMAQ) / 65 TEC / 25%
			AND AT KING STREET & FINN STREET							
2021	Easthampton	608577		2	STP	\$	2,201,643	\$1,169,984	\$ 292,496	Construction / (YOE \$2,201,643
			WORK ON UNION STREET (ROUTE 141) FROM							STP) / 62 TEC / Pre 25%
			PAYSON AVENUE TO HIGH STREET (0.36 MILES)							
2021	Hadley	605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM	2	A/C STP	\$	12,652,410	\$1,761,984	\$ 440,496	Construction / (YOE \$25,805,364)
			MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET							Year 1 FFY 2021 A/C \$12,652,410,
										Year 2 FFY 2022 A/C \$13,152,954
										STP / 50 TEC / 25%
						\$	26,303,990			
					Target		26,303,990			
2022					Difference	\$	(0)			

Pioneer Valley Transportation Improvement Program 2019 -

SID	Municipality	FFY	Project Description	District	Funding Sources	Total	Funds	Federal Funds	Non- Federal Funds	Additional Information
		608374	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	A/C STP	\$	7,390,199	\$ 972,893	\$ 108,099	Construction / (YOE \$19,797,253 Year 1 FFY 2022 A/C \$7,390,199 Year 2 A/C FFY2023 \$12,407,054 STP / 66.5 TEC 25%
	- · · · ,		GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	STP	\$	2,866,866	\$1,287,046		Construction / (YOE \$1,959,470) STP) / 42 TEC / 25%
	,	606156	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	2	STP	\$	3,429,583	\$2,786,880		Construction / (YOE \$3,349,615 STP) / 47 TEC / Pre 25%
2022	Hadley		HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	A/C STP	\$	13,152,954	\$1,761,984		Construction / (YOE \$25,805,364) Year 1 FFY 2021 A/C \$12,652,410, Year 2 FFY 2022 A/C \$13,152,954 STP / 50 TEC / 25%
						\$	26,839,603			
					Target	\$	26,839,603			
2023					Difference	\$	0			
2023	West Springfield		WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	A/C STP	\$	12,407,054	\$ 972,893		Construction / (YOE \$19,797,253 Year 1 FFY 2022 A/C \$7,390,199 Year 2 A/C FFY2023 \$12,407,054 STP / 66.5 TEC 25%
2023	Worthington		Route 143 Reconstruction and Related Work - Phase II	1	STP	\$	8,584,000	\$6,867,200		Construction / (YOE \$8,584,000) STP / 41.5 TEC / 75% Project Phase I funded in FFY 2019 Total project cost was \$16,300,000
2023	Lonmeadow	000001	RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	2	STP	\$	6,064,675	\$4,851,740	\$1,212,935	Construction (YOE \$6,064,675 / 54.5 TEC / Pre 25%
						\$	27,055,729			
					Target		27,425,802			
					Difference	\$	370,073			

## **Table 10 Federally Funded Projects Year 2019**

Amendment / STIP Adjustment Type ▼ Progra	MassDOT ram ▼ Project ID ▼		Name ▼	MassDOT Project Description▼		Funding Source ▼	1	Federal Funds ▼	Funds ▼	Present information  Present information as follows, if applicable: a) Planning / Design / or Construction; b) total project cost and funding sources used: c) advance construction
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#### ► Section 1A / Regionally Prioritized Projects

Intersection Improvements	608411	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	HSIP	\$ 1,000,000	\$	900,000	\$ 100	Construction / (YOE \$1,886,880 STP) / 49.5 TEC / 25% HSIP, CMAQ
Intersection Improvements	608411	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	2	СМАQ	\$ 886,880	\$	709,504	\$ 177	Construction / (YOE \$1,886,880 STP) / 49.5 TEC / 25% HSIP, CMAQ
Roadway Reconstruction	600513	Pioneer Valley	Agawam	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	2	STP	\$ 2,516,438	\$ 2	2,013,150	\$ 503	Construction / (YOE \$2,516,438 STP) / 27 TEC / 25% STP
Intersection Improvements	608412	Pioneer Valley	Belchertown	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	2	STP	\$ 5,644,850	\$ 4	,515,880	\$ 1,128,	Construciton / (YOE \$5,644,850 STP) / 59 TEC / 25% STP
Intersection Improvements	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	STP	\$ 1,000,000	\$	800,000	\$ 200	Construction / (YOE \$2,475,087) STP) / 55 TEC / 75% STP, CMAQ, TAP
Intersection Improvements	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	CMAQ	\$ 1,000,000	\$	800,000	\$ 200	Construction / (YOE \$2,475,087) STP) / 55 TEC / 75% STP, CMAQ, TAP
Intersection Improvements	607987	Pioneer Valley	Ware	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	2	TAP	\$ 475,087	\$	380,070	\$ 95	O17 Construction / (YOE \$2,475,087) STP) / 55 TEC / 75% STP, CMAQ, TAP
Roadway Reconstruction	604962	Pioneer Valley	Holland	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	2	STP	\$ 2,919,446	\$ 2	2,335,557	\$ 583	Construction / (YOE \$2,919,446) STP) / 26.5 TEC / 25% - 25% Comment Received, cost increased from \$1,409,592 STP
Roadway Reconstruction	606912	Pioneer Valley	Worthington	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE I)	1	STP	\$ 8,900,000	\$ 7	',120,000	\$ 1,780,	Construction / (YOE \$8,900,000) STP / 41.5 TEC / 75% Project Phased Total project cost was
Planning / Adjustments / Pass-throughs	PV0001	Pioneer Valley	multiple	P21 Express - Year 2 Operating	2	CMAQ	\$ 500,000	\$	400,000	\$ 100	P21 Express - Year 2 Operating CMAQ

#### ► Section 1A / Fiscal Constraint Analysis

Section 1A instructions: MPO Template Name) Choose Regional Name from dropdown list to populate header and MPO column; Column C) Enter ID from ProjectInfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex.

Total Regional Federal Aid I	unds Programmed ▶	\$ 24,842,701	\$ 24,855,247		9
				Budget	
ate header and MPO column;	STP programmed ▶	\$ 20,980,734	\$ 16,784,587	<b>⋖</b> STP	
n H) Choose the Funding Source er the total amount of funds	HSIP programmed ▶	\$ 1,000,000	\$ 900,000	<b>◀</b> HSIP	
tes. Please verify the amount	CMAQ programmed ▶	\$ 2,386,880	\$ 1,909,504	<b>⋖</b> CMAQ	
match - if matching an FTA flex.	TAP programmed ▶	\$ 475,087	\$ 380,070	<b>◀</b> TAP	

12,546 Target Funds Available

# Table 10: Federally Funded Projects Year 2019 (Continued)

	al Aid									
		D: V.II	0		LIDD	<u> </u>	10	1		
		Pioneer Valley	Other Federal Aid		HPP	\$ -	\$	- \$	-	
		Pioneer Valley	Other Federal Aid		HPP	\$ -	\$	- \$	-	
				Other Feder	ral Aid subtotal ▶	\$ -	\$	- \$	-	■ Funding Split Varies by Funding Source
ction 2A /	State Prioritized Reliability Proje	ects								
	•									
dge Prog	ram / Inspections	Di	D'des les estes			Φ.	70			
	Bridge Program	Pioneer Valley	Bridge Inspection				· \$	- \$ - \$	-	\$
	Bridge Program	Pioneer Valley	Bridge Inspection		ctions subtotal ▶		\$		-	■ Funding Split Varies by Funding Source
			Bridge Pro	ogram / inspe	ctions subtotal >	<b>5</b> -	• 5	- \$	-	■ Funding Split Varies by Funding Source
dge Prog	ram / Off-System				<b>200</b> 000					
	70000	***************************************	MIDDLEFIELD- BRIDGE SUPERSTRUCTURE							
	Bridge Program 60	8429 Pioneer Valley	REPLACEMENT, M-19-010, CHESTER ROAD OVER SMART BROOK	1	STP-BR-OFF	\$ 970,80	)7 \$	776,646 \$	194,161	
	Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$	- \$	-	
			Bridge Pr	ogram / Off-S	ystem subtotal ▶	\$ 970,80	7 \$ 7	76,646 \$	194,161	■ 80% Federal + 20% Non-Federal
idge Prog	ram / On-System (NHS)									
	Bridge Program	Pioneer Valley	Bridge Program / On-System (NHS)			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / On-System (NHS)			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / On-System (NHS)			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / On-System (NHS)			\$	- \$	- \$	-	
	Bridge Program	Pioneer Valley	Bridge Program / On-System (NHS)			\$ -	\$	- \$	-	
			Bridge Program	On-System	(NHS) subtotal ▶	\$ -	\$	- \$	-	■ Funding Split Varies by Funding Source
	ram / On-System (Non-NHS)									
idge Prog	Bridge Program	Pioneer Valley	Bridge Program / On-System (Non-NHS)			\$	- \$	- \$	-	
dge Prog	Bridge Program	Pioneer Valley	Bridge Program / On-System (Non-NHS)			\$	- \$	- \$	-	
dge Prog	Dilage i logialii	Pioneer Valley	Bridge Program / On-System (Non-NHS)			\$	- \$	- \$	-	
dge Prog	Bridge Program			Cyctom /Non	-NHS) subtotal ▶	\$ -	\$	- \$	-	■ 80% Federal + 20% Non-Federal
idge Prog			Bridge Program / On-	System (Non-	rano) oubtotui P					
	Bridge Program		Bridge Program / On-	System (Non-	Tillo) dabidial P		•			
	Bridge Program	Pioneer Vallev		System (Non-	Time y dubtetan P	\$	-   \$	- <b>/</b> \$		
	Bridge Program		Bridge Program / On- Bridge Program / Systematic Maintenance Bridge Program / Systematic Maintenance	System (Non-	,		-   \$ -   \$	- \$ - \$		



Interstate Pavemen	<del></del>				CHICODEE, HOI VOKE, INTEDSTATE							
	Interstate Pavement	607560	Pioneer Valley	Multiple	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE AND RELATED WORK ON I-391	2	NHPP	\$ 11,309	9,875	\$ 10,178,888	\$ 1,130,988	
	Interstate Pavement	607560	Pioneer Valley	Multiple	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$ 41	6,000	\$ 374,400	\$ 41,600	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate		Pioneer Valley		Interstate Pavement			\$	- :	\$ -	\$ -	
	Pavement		-		Inst	l terstate Pave	ment subtotal ►	\$ 11,725	5,875	\$ 10,553,288	\$ 1,172,588	■ 90% Federal + 10% Non-Federal
Ion-Interstate Pave	ment											
	Non-Interstate Pavement	607474	Pioneer Valley	Multiple	GRANBY- SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROTUE 202	2	NHPP	\$ 5,752	2,500	\$ 4,602,000	\$ 1,150,500	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
000000000000000000000000000000000000000	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	- 1	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	- 1	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement	•		\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	- 1	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
			<u></u>		Non-In	terstate Pave	ment subtotal ►	\$ 5,752	,500	\$ 4,602,000	\$ 1,150,500	■ 80% Federal + 20% Non-Federal
Roadway Improver												
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	- [	\$ -	\$ -	
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$ -	\$ -	
	Roadway Improvements		Pioneer Valley		RoadwayImprovements			\$	-	\$ -	\$ -	
					Roady	way Improven	nents subtotal ▶	\$	-	\$ -	\$ -	■ 80% Federal + 20% Non-Federal
Safety Improvemen	nts											
0	Safety Improvements	607736	Pioneer Valley	Chicopee	CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET	2	HSIP	\$ 6,001	1,387	\$ 5,401,248	\$ 600,139	
000000000000000000000000000000000000000	Safety Improvements	608600	Pioneer Valley	Multiple	CHICOPEE- WEST SPRINGFIELD- HIGHWAY LIGHTING UPGRADE ON I-91	2	NHPP	\$ 4,300	0,759	\$ 3,870,683	\$ 430,076	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	- 1	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	- 1	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	- 1	\$ -	\$ -	
				1								
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	

Table 10: Federally Funded Projects Year 2019 (Continued)

OA Retrofits													
JA Retrofits ADA Retrofi		Pioneer Valley		ADA Retrofits	ı		Φ.		\$	-	<b>ተ</b>		
ADA Retrofi		Pioneer Valley		ADA Retrollis ADA Retrofits			\$ \$		\$		\$ \$	-	
ADA REIIOII	)	Pioneer valley		ADA REITOILS	ADA Bot	trofits subtotal ▶		-			\$		■ 80% Federal + 20% Non-Federal
					ADA Rei	trolits subtotal 🕨	Ф	-	Ф	-	Ф	-	■ 60% Federal + 20% Non-Federal
ersection Improvements													
Intersection Improveme	ts	Pioneer Valley		Intersection Improvements			\$	-	\$	-	\$	-	
Intersection Improveme	ts	Pioneer Valley		Intersection Improvements			\$	-	\$	-	\$	-	
Intersection Improveme	ts	Pioneer Valley		Intersection Improvements			\$	-	\$	-	\$	-	
Intersection Improveme	ts	Pioneer Valley		Intersection Improvements			\$	-	\$	-	\$	-	
Intersection Improveme	ts	Pioneer Valley	***************************************	Intersection Improvements		•	\$	-	\$	-	\$	-	
Intersection Improveme	ts	Pioneer Valley		Intersection Improvements			\$	-	\$	-	\$	-	
				Intersec	tion Improven	nents subtotal <b>&gt;</b>	\$	-	\$	-	\$	-	■ Funding Split Varies by Funding Source
elligent Transportation Syste	ms				·	***************************************					,		
Intelligent Transportat		Pioneer Valley		Intelligent Transportation Systems			\$	_	\$	-	\$	-	
Intelligent Transportat Systems		Pioneer Valley		Intelligent Transportation Systems			\$	_	\$	-	\$	-	
Intelligent Transportat Systems Intelligent Transportat	on	Pioneer Valley		Intelligent Transportation Systems Intelligent Transportation Systems			\$	-	\$ \$		\$	-	
Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat	on on									-		***************************************	
Intelligent Transportat Systems Intelligent Transportat Systems Intelligent	on on	Pioneer Valley		Intelligent Transportation Systems Intelligent Transportation Systems			\$	-	\$ \$	-	\$	-	
Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat	on on	Pioneer Valley		Intelligent Transportation Systems Intelligent Transportation Systems	sportation Sy	stem subtotal ▶	\$	-	\$ \$	-	\$	-	■ 80% Federal + 20% Non-Federal
Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat Systems	on on	Pioneer Valley		Intelligent Transportation Systems Intelligent Transportation Systems	sportation Sy	stem subtotal ▶	\$	-	\$ \$	-	\$	-	■ 80% Federal + 20% Non-Federal
Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat Systems Adway Reconstruction Roadway	on on 608700	Pioneer Valley	Holyoke	Intelligent Transportation Systems  Intelligent Transportation Systems  Intelligent Transportation Systems	sportation Sy	stem subtotal ►	\$	-	\$ \$	-	\$ \$	-	■ 80% Federal + 20% Non-Federal
Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat Systems Systems	on 608790	Pioneer Valley Pioneer Valley	Holyoke	Intelligent Transportation Systems  Intelligent Transportation Sys			\$ \$	1,264,935	\$ \$ \$	1,011,948	\$ \$		■ 80% Federal + 20% Non-Federal
Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat Systems Intelligent Transportat Systems Adway Reconstruction Roadway Reconstruct Roadway	on 608790	Pioneer Valley Pioneer Valley Pioneer Valley	-	Intelligent Transportation Systems	2	ТАР	\$ \$ \$	1,264,935	\$ \$	1,011,948	\$ \$	52,987	■ 80% Federal + 20% Non-Federal

## **Table 10: Federally Funded Projects Year 2019 (Continued)**

1	-ltl											
cles and Pe	aestrians		I	1								
	Bicycles and Pedestrians	603783	Pioneer Valley	Westfield	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25- 015, W-25-016, W-25-017, W-25-018 & W-25-019	2	CMAQ	\$ 6,532,89	5 \$ 5	,226,316	\$ 1,306,579	Construction / PSAC score 39.5
	Bicycles and Pedestrians		Pioneer Valley		Bicycles and Pedestrians			\$	. \$	-	\$ -	
	Bicycles and Pedestrians		Pioneer Valley		Bicycles and Pedestrians			\$	\$		\$ -	
					Bicycles	s and Pedestri	ians subtotal ▶	\$ 6,532,89	<b>5</b> \$ 5,	226,316	\$ 1,306,579	■ 80% Federal + 20% Non-Federal
city								,				
	Capacity		Pioneer Valley		Capacity				. \$	-	000000000000000000000000000000000000000	
	Capacity		Pioneer Valley		Capacity				. \$	-		
						Capa	acity subtotal >	\$ -	\$	-	\$ -	■ Funding Split Varies by Funding Source
OII 3 / PIAIII	ning / Adjustments / Pa	ass-tillough	5									
ning / Adjus	stments / Pass-through	S										
			Pioneer Valley		ABP GANS Repayment	Multiple			\$	-		
			Pioneer Valley		ABP GANS Repayment	Multiple			\$	-		
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple			\$	-		
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple			\$	-		
		••••••	Pioneer Valley Pioneer Valley		Award adjustments, change orders, etc.  Award adjustments, change orders, etc.	Multiple Multiple		<u> </u>	· \$ · \$	-		
			Pioneer Valley		Metropolitan Planning	Multiple			· \$	-		
			Pioneer Valley		Metropolitan Planning	Multiple			· \$	<u>-</u>	\$ -	
			Pioneer Valley		State Planning and Research Work Program I, (SPR I), Planning	Multiple		\$			\$ -	
			Pioneer Valley		State Planning and Research Work Program II, (SPR II), Research	Multiple		\$ .	<u> </u>		\$ -	
			Pioneer Valley		Railroad Crossings	Multiple			\$	-		
			Pioneer Valley		Railroad Crossings	Multiple			\$	-		
		•••••	Pioneer Valley		Recreational Trails	Multiple	ems subtotal ▶	<u> </u>	\$ \$	-		▼ Funding Split Varies by Funding Source
	Federally Aided Projec	cts				, Otatowao ik	ome dubtotal p		•		•	The training opinit variety by Fartaining courts
Federally A	ided Projects	••••••	Diamont V-II		Non Fodoral Aid			•	1000000		7e	*
	Non Federal Aid Non-Federally		Pioneer Valley		Non-Federal Aid			\$			\$ -	
	Aided Projects		Pioneer Valley		Non-Federal Aid			\$			\$ -	
						Non-Federa	l Aid subtotal▶	\$ -			\$ -	◀100% Non-Federal
0.0								TIP Section	1 - TIP Se	ection 4:	Total of All	
9 Sum	mary							3: ▼	▼		Projects ▼	
							Total ▶	\$ 65,501,33	9 \$			■ Total Spending in Region
								homeiomenomenomicomenomicomenom	oment)emememeene			
						F	ederal Funds >	\$ 54 703 87	3		\$ 54 703 873	■ Total Federal Spending in Region

## **Table 11: Federally Funded Projects 2020**

Amendment / STIP Adjustment Type ▼ Program	▼ Project ID ▼		Name ▼	MassDOT Project Description ▼					Non-Federal Funds ▼	Additional information ▼  Present information as follows, if applicable: a)  Planning / Design / or Construction; b) total project cost and funding sources, used: c) advance construction
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#### ► Section 1A / Regionally Prioritized Projects

ionally Prioritiz	Lea i Tojecis				WESTELD IMPROVEMENTS & DELATED		1	 				1
	Roadway Reconstruction	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	STP	\$ 5,500,000	\$ 4,400,	000	\$ 1,100,000	Construction / (YOE \$7,599,876 STP) / 48.5 TE 25% HSIP, TAP, STP, CMAQ
	Roadway Reconstruction	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	СМАQ	\$ 599,876	\$ 479	901	\$ 119,975	Construction / (YOE \$7,599,876 STP) / 48.5 TE 25% HSIP, TAP, STP, CMAQ
	Roadway Reconstruction	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	HSIP	\$ 1,000,000	\$ 900	000	\$ 100,000	Construction / (YOE \$7,599,876 STP) / 48.5 TE 25% HSIP, TAP, STP, CMAQ
	Roadway Reconstruction	607773	Pioneer Valley	Westfield	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	2	TAP	\$ 500,000	\$ 400	000	\$ 100,000	Construction / (YOE \$7,599,876 STP) / 48.5 TB 25% HSIP, TAP, STP, CMAQ
	Roadway Reconstruction	604434	Pioneer Valley	Chicopee	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	2	STP	\$ 5,907,953	\$ 4,726,	362	\$ 1,181,591	Construction / (YOE \$7,907,953 STP) / 48.5 To 25% STP, CMAQ
	Roadway Reconstruction	604434	Pioneer Valley	Chicopee	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	2	CMAQ	\$ 2,000,000	\$ 1,600,	000	\$ 400,000	Construction / (YOE \$7,907,953 STP) / 48.5 To 25% STP, CMAQ
	Roadway Reconstruction	608236	Pioneer Valley	Northampton	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	2	STP	\$ 10,248,854	\$ 8,199,	083	\$ 2,049,771	Construction / (YOE \$10,248,854 STP) / 66.5 75% STP
			Pioneer Valley					\$ -	\$	- :	\$ -	

#### ► Section 1A / Fiscal Constraint Analysis

Section 1A instructions: MPO Template Name) Choose Regional Name from dropdown list to populate header and MPO column;
Column C) Enter ID from ProjectInfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex.

Total Regional Federal Aid	Funds Programmed ▶	\$ 25,756,683	\$	<b>⊲</b> Total Budget	\$
ate header and MPO column;	STP programmed ▶	\$ 21,656,807	\$ 17,325,446	<b>⋖</b> STP	
n H) Choose the Funding Source er the total amount of funds	HSIP programmed ▶	\$ 1,000,000	\$ 900,000	<b>◀</b> HSIP	
tes. Please verify the amount	CMAQ programmed ▶	\$ 2,599,876	\$ 2,079,901	<b>⋖</b> CMAQ	
match - if matching an FTA flex,	TAP programmed ▶	\$ 500,000	\$ 400,000	<b>◀</b> TAP	

25,463 Target Funds Available

# Table 11: Federally Funded Projects Year 2020 (Continued)

er Federal Aid											
		T T			1	Τ.	•	<b>.</b>	•		
	*******************************	Pioneer Valley	Other Federal Aid		HPP	\$	-	\$	-	\$ -	
		Pioneer Valley	Other Federal Aid		HPP	\$	-	\$	-	\$ -	
		<u> </u>		Other Feder	al Aid subtotal ▶	\$	-	\$	-	\$ -	■ Funding Split Varies by Funding Sour
ection 2A / State Prioritized Reliab	ility Projects										
idge Program / Inspections											
Bridge Program		Pioneer Valley	Bridge Inspection			\$	-	\$	-	\$ -	
Bridge Program		Pioneer Valley	Bridge Inspection			\$	_	\$	-	\$ -	
			Bridge Pro	gram / Insped	ctions subtotal ▶	\$		\$	-	\$ -	■ Funding Split Varies by Funding Sour
			į.			1 .	'		-		8 5 1
ridge Program / Off-System		1	WESTHAMPTON- BRIDGE REPLACEMENT, W-27	7							
Bridge Program	608631	Pioneer Valley	005, KINGS HIGHWAY OVER N BRANCH	2	STP-BR-OFF	\$	3,072,000	\$ 2,4	57,600	\$ 614,400	
Dridge Dream		Dianaar Vallay	MANHAN RIVER			+		\$		s -	
Bridge Program Bridge Program		Pioneer Valley Pioneer Valley	Bridge Program / Off-System Bridge Program / Off-System	-		\$		\$ \$		_ <del>_</del>	
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$		\$		\$ - *\$ -	
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$		\$	-		
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$		\$	-	_ *	
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$		\$	-	_ <del>_</del>	
nuge Program / On-System (NHS)	00000000000000000000000000000000000000		WESTFIELD- BRIDGE REPLACEMENT, W-25-			T					
Bridge Program	400103	Pioneer Valley	WESTFIELD- BRIDGE REPLACEMENT, W-25- 006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER	2	NHPP-On	\$	12,732,554	\$ 10,1	86,043	\$ 2,546,511	
	400103	Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER	2	NHPP-On	\$	12,732,554	\$ 10,1	86,043	\$ 2,546,511	
	400103	Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER	2	NHPP-On					\$ 2,546,511 \$ 2,275,671	AC Year 1 of 5, Total Cost \$56,891,767
Bridge Program  Bridge Program	400103	Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD			\$	11,378,353	\$ 9,1	02,682	\$ 2,275,671	AC Year 1 of 5, Total Cost \$56,891,767
Bridge Program  Bridge Program  Bridge Program	400103	Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)			\$	11,378,353	\$ 9,1	02,682	\$ 2,275,671 \$ -	AC Year 1 of 5, Total Cost \$56,891,767
Bridge Program  Bridge Program  Bridge Program  Bridge Program	400103	Pioneer Valley Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)			\$	11,378,353	\$ 9,1 \$ \$	02,682	\$ 2,275,671 \$ - \$ -	AC Year 1 of 5, Total Cost \$56,891,767
Bridge Program  Bridge Program  Bridge Program	400103	Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)	2	NHPP-On	\$ \$ \$ \$	11,378,353	\$ 9,1 \$ \$ \$	02,682	\$ 2,275,671 \$ - \$ - \$ -	
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program		Pioneer Valley Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)	2	NHPP-On	\$ \$ \$ \$	11,378,353	\$ 9,1 \$ \$ \$	02,682	\$ 2,275,671 \$ - \$ - \$ -	
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program		Pioneer Valley Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)	2	NHPP-On	\$ \$ \$ \$	11,378,353 - - - 24,110,907	\$ 9,1 \$ \$ \$ \$ \$ \$	02,682	\$ 2,275,671 \$ - \$ - \$ - \$ 4,822,181	
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program		Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)	2	NHPP-On	\$ \$ \$ \$	11,378,353 - - - 24,110,907	\$ 9,1 \$ \$ \$ \$ \$	02,682	\$ 2,275,671 \$ - \$ - \$ - \$ 4,822,181	
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program		Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (NON-NHS)	2 On-System (	NHPP-On NHS) subtotal ▶	\$ \$ \$ \$	11,378,353 - - - - <b>24,110,907</b> - - -	\$ 9,1 \$ \$ \$ \$ 19,2	02,682	\$ 2,275,671  \$ - \$ - \$ - \$ 4,822,181  \$ - \$ -	▼ Funding Split Varies by Funding Sou
Bridge Program		Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)  Bridge Program / On-System (Non-NHS)	2 On-System (	NHPP-On NHS) subtotal ▶	\$ \$ \$ \$	11,378,353 - - - - 24,110,907	\$ 9,1 \$ \$ \$ \$ 19,2	02,682	\$ 2,275,671  \$ - \$ - \$ - \$ 4,822,181  \$ - \$ -	
Bridge Program	HS)	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (NON-NHS)	2 On-System (	NHPP-On NHS) subtotal ▶	\$ \$ \$ \$	11,378,353 - - - - <b>24,110,907</b> - - -	\$ 9,1 \$ \$ \$ \$ 19,2	02,682	\$ 2,275,671  \$ - \$ - \$ - \$ 4,822,181  \$ - \$ -	■ Funding Split Varies by Funding Sour
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program  ridge Program / On-System (Non-N)  Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program	HS)	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (NON-NHS)	2 On-System (	NHPP-On NHS) subtotal ▶	\$ \$ \$ \$	11,378,353 - - - - 24,110,907 - - -	\$ 9,1 \$ \$ \$ \$ 19,2	02,682	\$ 2,275,671  \$ - \$ - \$ - \$ 4,822,181  \$ - \$ -	▼ Funding Split Varies by Funding Sour
Bridge Program	HS)	Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)	2 On-System (	NHPP-On NHS) subtotal ▶	\$ \$ \$ \$	11,378,353 	\$ 9,1 \$ \$ \$ \$ 19,2 \$ \$ \$	02,682	\$ 2,275,671 \$ - \$ - \$ - \$ 4,822,181 \$ - \$ - \$ -	▼ Funding Split Varies by Funding Sou
Bridge Program  Bridge Program	HS)	Pioneer Valley	006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)  Bridge Program / On-System (Non-NHS)	2 On-System (	NHPP-On NHS) subtotal ▶	\$ \$ \$ \$ \$	11,378,353 - - - 24,110,907 - - -	\$ 9,1 \$ \$ \$ \$ \$ 19,2 \$ \$ \$ \$	02,682	\$ 2,275,671  \$ - \$ - \$ 4,822,181  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	▼ Funding Split Varies by Funding Sou

Table 11: Federally Funded Projects Year 2020 (Continued)

Interstate Paver				·	3	·····						·
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
					Ins	terstate Pave	ment subtotal ▶	\$	-	\$ -	\$ -	■ 90% Federal + 10% Non-Federal
Non-Interstate P	avement											
	Non-Interstate Pavement	608473	Pioneer Valley	South Hadley	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	2	NHPP	\$ 2,20	08,960	\$ 1,767,168	\$ 441,792	
000000000000000000000000000000000000000	Non-Interstate Pavement	604209	Pioneer Valley	Multiple	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5	2	NHPP	\$ 13,9	53,264	\$ 11,162,611	\$ 2,790,653	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$			\$ -	
					Non-In	terstate Pave	ment subtotal ▶	\$ 16,16	62,224	\$ 12,929,779	\$ 3,232,445	◀ 80% Federal + 20% Non-Federal
Roadway Impro	ovements											
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$ -	\$ -	
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$ -	\$ -	
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$ -	\$ -	
					Roady	way Improvem	nents subtotal ▶	\$	-	\$ -	\$ -	◀ 80% Federal + 20% Non-Federal
Safety Improve	ments											
	Safety Improvements	608575	Pioneer Valley	Multiple	CHICOPEE TO HOLYOKE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	2	HSIP	\$ 5	42,872	\$ 488,585	\$ 54,287	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
						<u> </u>	ents subtotal ▶		12,872	\$ 488,585		■ Funding Split Varies by Funding Sour

Table 11: Federally Funded Projects Year 2020 (Continued)

Section 2B / Sta	ate Prioritized Modern	ization Proje	cts										
ADA Retrofits													
ADA Retionis	ADA Retrofits		Pioneer Valley		ADA Retrofits		1	\$	- [9	· -	\$	-	
	ADA Retrofits		Pioneer Valley		ADA Retrofits			\$	- 3		\$	-	
						ADA Re	trofits subtotal ▶	\$	- (	-	\$	-	◀ 80% Federal + 20% Non-Federal
ntersection Im	provements												
	Intersection Improvements		Pioneer Valley		Intersection Improvements			\$	- 9	-	\$	-	
	Intersection		5: 7/11			<b>_</b>	<b>-</b>						
	Improvements		Pioneer Valley		Intersection Improvements			\$	- 9	· -	\$	-	
	Intersection Improvements		Pioneer Valley		Intersection Improvements			\$	- 9	-	\$	-	
***************************************	Intersection		Pioneer Valley		Intersection Improvements			\$	- 9	_	\$	_	
000000000000000000000000000000000000000	Improvements Intersection		***************************************		mersection improvements	-	***************************************				<b>-</b>		
	Improvements		Pioneer Valley		Intersection Improvements			\$	- \$	-	\$	-	
	Intersection		Pioneer Valley		Intersection Improvements			\$	- 9	-	\$	-	
	Improvements				Intersec	tion Improver	nents subtotal ▶	\$	- 9	-	\$		■ Funding Split Varies by Funding Source
						alon improvo		1 •		,	1 4		, training opin values by rainaning opinio
ntelligent Tran	sportation Systems							I			,		
	Intelligent Transportation		Pioneer Valley		Intelligent Transportation Systems			\$	- 9	-	\$	_	
	Systems												
	Intelligent Transportation		Pioneer Valley		Intelligent Transportation Systems			\$	- 9	_	\$		
	Systems		rioneer valley		menigent transportation dystems			Ψ	,	, -	Ψ		
	Intelligent		5: 1/ !!		L. III T								
	Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	- 9	-	\$	-	
				······································	Intelligent Tran	sportation Sy	stem subtotal ▶	\$	- 9	-	\$	-	■ 80% Federal + 20% Non-Federal
Roadway Reco	nstruction												
	Roadway		Pioneer Valley		Roadway Reconstruction			\$	- 9	_	\$	-	
	Reconstruction		rioneer valley		Roadway Reconstruction			Ψ	- 14	-	ð	-	
	Roadway Reconstruction		Pioneer Valley		RoadwayReconstruction			\$	- 9	-	\$	-	
	Roadway	***************************************	Pioneer Valley		RoadwayReconstruction			\$	- 9	-	\$	_	
	Reconstruction Roadway		,							***************************************	<u> </u>		
	Reconstruction		Pioneer Valley		Roadway Reconstruction			\$	- 9		\$	-	
					Roadw	ay Reconstru	uction subtotal ▶	\$	-   9	-	\$	-	■ Funding Split Varies by Funding Source
Section 2C / Sta	ate Prioritized Expansi	ion Projects											
, , , , , , , , , , , , , , , , , , ,	210 :												
Bicycles and Pe	edestrians				- COMPONER CONTROLLED VICE	·	7						,
					CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP								
	Bicycles and Pedestrians	602911	Pioneer Valley	Chicopee	NEAR I-90 TO NASH FIELD (2.5 MILES),	2	CMAQ	\$ 3,24	47,643	2,598,114	\$	649,529	
	redesilians				INCLUDES NEW BRIDGE C-13-060 OVER								
	Piovoles and				OVERFLOW CHANNEL	-					_		
	Bicycles and Pedestrians		Pioneer Valley		Bicycles and Pedestrians			\$	- 9	-	\$	-	
	Bicycles and		Pioneer Valley		Bicycles and Pedestrians			\$	- 9	-	\$	-	
	Pedestrians		c.roor vancy		Diograms and I oddound to	1	1	1 4	14	•	Ι Ψ		

Capacity											
	Capacity	Pioneer Valley	Capacity		\$	-	\$	-	\$	-	
	Capacity	Pioneer Valley	Capacity		\$	-		-	\$	-	
				Capacity su	btotal ► \$	-	\$	-		-	■ Funding Split Varies by Funding Source
ection 3 / Plan	ning / Adjustments / Pass-t	throughs									
lanning / Adju	stments / Pass-throughs										
		Pioneer Valley	ABP GANS Repayment	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	ABP GANS Repayment	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	Metropolitan Planning	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	Metropolitan Planning	Multiple	\$	-	\$	-	\$	-	
***************************************		Pioneer Valley	State Planning and Research Work Program I, (SPR I), Planning	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	State Planning and Research Work Program II, (SPR II), Research	Multiple	\$	_	\$	-	\$	_	
***************************************		Pioneer Valley	Railroad Crossings	Multiple	\$	-	\$	-	\$	-	
		Pioneer Valley	Railroad Crossings	Multiple	\$	-		-		_	
		Pioneer Valley	Recreational Trails	Multiple	\$	-		-	\$	-	
			······································	er Statewide Items su	btotal ▶ \$	-	******************	-		_	■ Funding Split Varies by Funding Source
			<b>5</b>	o. o.a.oao	2101a. F   <b>T</b>		1 4		Ψ.		The analog opin trained by training obtained
action 4 / Non-	-Federally Aided Projects										
ection 47 Non-	-rederany Alded Frojects										
on-Federally A	Aidad Projects										
ion-rederany A	Non Federal Aid	Pioneer Valley	Non-Federal Aid		\$	-	14.000000000000000000000000000000000000		\$	-	
	Non-Federally	Tioneer valley	INOITI EUCIAI AU		Ψ		<b></b>	************	Ψ		
	Aided Projects	Pioneer Valley	Non-Federal Aid		\$	-			\$	-	
	Alded Projects			Non-Federal Aid su	.l-4-4-1 <b>&gt;</b>		<b></b>	************	\$		■100% Non-Federal
				inon-Federal Ald St	udtotai▶   🍎	-			\$	-	■ 100% Non-Federal
					1.5						
120 Sum	mary				TIP Se	ction 1 -	- TIP Se	ction 4:	Total_o	f All	
020 Sum	mary				TIP Se 3: ▼	ction 1 -	- TIP Se ▼		Total o		
020 Sum	mary				3: ▼		▼		Project	ts ▼	Total Sponding in Region
)20 Sum	mary					892,329	<b>▼</b>		Project \$ 72,8	ts <b>▼</b> 892,329	■ Total Spending in Region     ■ Total Federal Spending in Region

## **Table 12: Federally Funded Projects 2021**

Amendment / Adjustment Type ▼	1	MassDOT Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description ▼		Funding Source ▼	Total Programmed Funds ▼	Federal Funds ▼	runas ▼	Additional information v <u>Present information as follows, if applicable:</u> a)  Planning / Design / or Construction; b) total project cost and funding sources used: c) advance construction
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#### ► Section 1A / Regionally Prioritized Projects

- g	ioritized Projects				SPRINGFIELD- INTERSECTION IMPROVEMENTS		1	<del></del>					
	Intersection Improvements	608718	Pioneer Valley	Springfield	AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	2	STP	\$	1,229,021	\$ 983,2	7 \$	245,804	Construction / (YOE \$2,229,021 STP) / 41.5 TE Score / Pre 25% HSIP, STP
	Intersection Improvements	608718	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	2	HSIP	\$	1,000,000	\$ 900,00	00 \$	100,000	Construction / (YOE \$2,229,021 STP) / 41.5 TE Score / Pre 25% HSIP, STP
	Intersection Improvements	608782	Pioneer Valley	Springfield	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, INDUSTRY AVENUE AND ROBBINS ROAD	2	CMAQ	\$	1,944,000	\$ 1,555,20	0 \$	388,800	Construction / (YOE \$1,944,000) STP) / 46.5 To Score / Pre 25% STP
	Roadway Improvements	608084	Pioneer Valley	Amherst	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	2	STP	\$	3,121,863	\$ 2,497,49	0 \$	624,373	Construction / (YOE \$3,621,863 STP) / 53.5 TE 25% STP, TAP
	Roadway Improvements	608084	Pioneer Valley	Amherst	AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	2	TAP	\$	500,000	\$ 400,00	00 \$	100,000	Construction / (YOE \$3,621,863 STP) / 53.5 TE 25% STP, TAP
	Intersection Improvements	607502	Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	STP	\$	2,655,054	\$ 2,124,04	3 \$	531,011	Construction / (YOE \$3,655,054 STP, CMAQ) TEC / 25% STP, CMAq
	Intersection Improvements	607502	Pioneer Valley	Northampton	NORTHAMPTON- INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	2	CMAQ	\$	1,000,000	\$ 800,00	00 \$	200,000	Construction / (YOE \$3,655,054 STP, CMAQ) TEC / 25% STP, CMAq
	Roadway Reconstruction	608577	Pioneer Valley	Easthampton	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	2	STP	\$	2,201,643	\$ 1,761,31	4 \$	440,329	Construction / (YOE \$2,201,643 STP) / 62 TEC Pre 25% STP
	Roadway Reconstruction	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	STP	\$	12,652,410	\$ 10,121,92	28 \$	2,530,482	Construction / (YOE \$25,805,364) Year 1 FFY A/C \$12,652,410, Year 2 FFY 2022 A/C \$13,152,954 STP / 50 TEC / 25%

#### ► Section 1A / Fiscal Constraint Analysis

Section 1A instructions: MPO Template Name) Choose Regional Name from dropdown list to populate header and MPO column;
Column C) Enter ID from ProjectInfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source
being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds
being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount
and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex.

Total Regional Federal Aid	l Funds Programmed ▶	\$ 26,303,991	\$ 26,303,990	<b>∢</b> Total	\$ (1)	Funds Over Programmed
				Budget		
ate header and MPO column;	STP programmed ▶	\$ 21,859,991	\$ 17,487,993	<b>⋖</b> STP		
n H) Choose the Funding Source er the total amount of funds	HSIP programmed ▶	\$ 1,000,000	\$ 900,000	<b>◀</b> HSIP		
ites. Please verify the amount	CMAQ programmed ▶	\$ 2,944,000	\$ 2,355,200	<b>⋖</b> CMAQ		
match - if matching an FTA flex,	TAP programmed ▶	\$ 500,000	\$ 400,000	<b>◀</b> TAP		

# Table 12: Federally Funded Projects Year 2021 (Continued)

ner Federal Aid			***************************************	7				·	1
	Pioneer Valley	Other Federal Aid		HPP	\$	- \$	-	\$ -	
	Pioneer Valley	Other Federal Aid	***************************************	HPP	\$	- \$	-	\$ -	
			Other Federa	al Aid subtotal ▶	\$	- \$	-	\$ -	■ Funding Split Varies by Funding Source  ■ Funding Split Varies by Funding Split Varies by Funding Source  ■ Funding Split Varies by Fundi
ction 2A / State Prioritized Reliability Pr	rojects								
dge Program / Inspections									
Bridge Program	Pioneer Valley	Bridge Inspection			\$	- \$	-	\$ -	
Bridge Program	Pioneer Valley	Bridge Inspection			\$	- \$		\$ -	
3	11 1011001 14110)		ram / Inspec	tions subtotal <b>&gt;</b>		- \$			■ Funding Split Varies by Funding Source
dge Program / Off-System									
Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program	Pioneer Valley	Bridge Program / Off-System	***************************************		\$	- \$		\$ - \$ -	
Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$		\$ -	
Bridge Program	Pioneer Valley	Bridge Program / Off-System	***************************************		\$	- \$		\$ -	
Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$		\$ -	
Bridge Program	Pioneer Valley	Bridge Program / Off-System			\$	- \$		\$ -	
Bridge Program	Pioneer Valley			·					
	in toncer variety	Bridge Program / Off-System Bridge Prog	ram / Off-Sy	rstem subtotal ▶	\$	- (\$ - (\$		<u>\$</u> -	■ 80% Federal + 20% Non-Federal
dge Program / On-System (NHS)	608460 Pioneer Valley	Bridge Prog	ram / Off-Sy	stem subtotal >	\$		-	\$ -	■ 80% Federal + 20% Non-Federal
dge Program / On-System (NHS)		Bridge Prog HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER			\$	- \$	-	\$ -	■ 80% Federal + 20% Non-Federal
dge Program / On-System (NHS)  Bridge Program		Bridge Prog			\$	- \$	4,518,396	\$ - \$ 1,129,599	■ 80% Federal + 20% Non-Federal  AC Year 2 of 5, Total Cost \$56,891,767
dge Program / On-System (NHS)  Bridge Program  Bridge Program	608460 Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD	2	NHPP-On	\$ \$	- \$ 5,647,995 \$ 1,378,353 \$	4,518,396 9,102,682	\$ - \$ 1,129,599 \$ 2,275,671	
dge Program / On-System (NHS)  Bridge Program  Bridge Program  Bridge Program	608460 Pioneer Valley 606552 Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-	2	NHPP-On	\$	5,647,995 \$	4,518,396 9,102,682	\$ 1,129,599 \$ 2,275,671	
dge Program / On-System (NHS)  Bridge Program  Bridge Program	608460 Pioneer Valley 606552 Pioneer Valley Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)	2	NHPP-On	\$ \$	- \$ 5,647,995 \$ 1,378,353 \$	- 4,518,396 9,102,682 - -	\$ - \$ 1,129,599 \$ 2,275,671 \$ -	
dge Program / On-System (NHS)  Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley  Pioneer Valley Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)	2	NHPP-On NHPP-On	\$ s s s s s s	5,647,995 \$ 1,378,353 \$ - \$ - \$ - \$	- 4,518,396 9,102,682 - -	\$ 1,129,599 \$ 2,275,671 \$ - \$ - \$ - \$ -	AC Year 2 of 5, Total Cost \$56,891,767
dge Program / On-System (NHS)  Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley  Pioneer Valley Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)	2	NHPP-On NHPP-On	\$ s s s s s s	5,647,995 \$ 1,378,353 \$ - \$ - \$ - \$	- 4,518,396 9,102,682 - -	\$ 1,129,599 \$ 2,275,671 \$ - \$ - \$ -	AC Year 2 of 5, Total Cost \$56,891,767
Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley  Pioneer Valley Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)	2	NHPP-On NHPP-On	\$ s s s s s s	5,647,995 \$ 1,378,353 \$ - \$ - \$ - \$	- 4,518,396 9,102,682 - -	\$ 1,129,599  \$ 2,275,671  \$ - \$ - \$ - \$ 3,405,270	AC Year 2 of 5, Total Cost \$56,891,767
Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley  Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)	2	NHPP-On NHPP-On	\$ \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 5,647,995 \$ 1,378,353 \$ - \$ - \$ 7,026,348 \$	- 4,518,396 9,102,682 - - - 13,621,078	\$ 1,129,599  \$ 2,275,671  \$ - \$ - \$ - \$ 3,405,270	AC Year 2 of 5, Total Cost \$56,891,767
Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley  Pioneer Valley  Pioneer Valley  Pioneer Valley  Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)	2	NHPP-On NHPP-On	\$ \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 5,647,995 \$ 1,378,353 \$ - \$ - \$ 7,026,348 \$	- 4,518,396 9,102,682 - - - 13,621,078	\$ 1,129,599  \$ 2,275,671  \$ - \$ - \$ - \$ 3,405,270	AC Year 2 of 5, Total Cost \$56,891,767
Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley  Pioneer Valley Pioneer Valley Pioneer Valley  Pioneer Valley Pioneer Valley Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (	NHPP-On NHPP-On NHS) subtotal	\$ \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 5,647,995 \$ 1,378,353 \$ - \$ - \$ 7,026,348 \$	- 4,518,396 9,102,682 - - - 13,621,078	\$ 1,129,599 \$ 2,275,671 \$ - \$ - \$ 3,405,270 \$ - \$ - \$ -	AC Year 2 of 5, Total Cost \$56,891,767
Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (	NHPP-On NHPP-On NHS) subtotal	\$ \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 5,647,995 \$ 1,378,353 \$ - \$ - \$ 7,026,348 \$ - \$ - \$ - \$ - \$	- 4,518,396 9,102,682 - - - 13,621,078	\$ 1,129,599 \$ 2,275,671 \$ - \$ - \$ 3,405,270 \$ - \$ - \$ -	AC Year 2 of 5, Total Cost \$56,891,767  ■ Funding Split Varies by Funding Sour
Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley	HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (	NHPP-On NHPP-On NHS) subtotal	\$ \$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 5,647,995 \$ 1,378,353 \$ - \$ - \$ 7,026,348 \$ - \$ - \$ - \$ - \$	- 4,518,396 9,102,682 - - - 13,621,078	\$ 1,129,599  \$ 2,275,671  \$ - \$ - \$ 3,405,270  \$ - \$ - \$ - \$ -	AC Year 2 of 5, Total Cost \$56,891,767   ■ Funding Split Varies by Funding Soun  ■ 80% Federal + 20% Non-Federal
Bridge Program  Bridge Program	608460 Pioneer Valley  606552 Pioneer Valley  Pioneer Valley	Bridge Prog  HADLEY- BRIDGE REPLACEMENT, H-01-005, BAY ROAD (ROUTE 47) OVER THE FORT RIVER  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (NON-NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (	NHPP-On NHPP-On NHS) subtotal	\$ 1 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 5,647,995 \$ 1,378,353 \$ - \$ - \$ 7,026,348 \$ - \$ - \$ - \$ - \$	- 4,518,396 9,102,682 - - - 13,621,078	\$ 1,129,599  \$ 2,275,671  \$ - \$ - \$ 3,405,270  \$ - \$ - \$ - \$ -	AC Year 2 of 5, Total Cost \$56,891,767  ■ Funding Split Varies by Funding Source ■ 80% Federal + 20% Non-Federal

Table 12: Federally Funded Projects Year 2021 (Continued)

Interstate Paveme													
			1	T	***************************************								
	Interstate Pavement		Pioneer Valley		Interstate Pavement		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$	-	\$	- :	-	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$	- :	-	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$	-	-	
	Interstate Pavement		Pioneer Valley	1	Interstate Pavement			\$	-	\$	- :	-	
	Interstate		Pioneer Valley		Interstate Pavement			\$	_	\$	- :	-	
	Pavement		l	1	Ins	terstate Paver	ment subtotal ▶	\$	-	\$	-	-	■ 90% Federal + 10% Non-Federal
Non-Interstate Pav	/ement												
	Non-Interstate				WESTFIELD- RESURFACING AND RELATED			Τ					
	Pavement	608487	Pioneer Valley	Westfield	WORK ON RTE 10 AND 202	2	NHPP	\$	2,676,240	\$ 2,140	,992	535,248	
	Non-Interstate Pavement	608489	Pioneer Valley	Wilbraham	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	2	NHPP	\$	8,602,200	\$ 6,88	,760	1,720,440	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$	-	-	
000000000000000000000000000000000000000	Non-Interstate Pavement	000000000000000000000000000000000000000	Pioneer Valley	000000000000000000000000000000000000000	Non-Interstate Pavement			\$	-	\$	-	-	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$	-	-	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$	- :	-	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$	-	-	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$	-	-	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$	-	-	
000000000000000000000000000000000000000			&		Non-In	iterstate Paver	ment subtotal ▶	\$ 1	1,278,440	\$ 9,022	752	2,255,688	◀ 80% Federal + 20% Non-Federal
Roadway Improve	ements												
	Roadway Improvements			3				1					
			Pioneer Valley		Roadway Improvements			\$	-	\$	-  :	-	
	Roadway		Pioneer Valley Pioneer Valley		Roadway Improvements  Roadway Improvements			\$		\$	-		
	Roadway Improvements Roadway							ļ ·	-			-	
	Roadway Improvements	***************************************	Pioneer Valley		Roadway Improvements Roadway Improvements	way Improvem	ents subtotal ▶	\$	-	\$ \$	-	; ;	■ 80% Federal + 20% Non-Federal
Safaty Improvem	Roadway Improvements Roadway Improvements		Pioneer Valley		Roadway Improvements Roadway Improvements	way Improvem	ents subtotal ▶	\$	-	\$ \$	- :	; ;	■ 80% Federal + 20% Non-Federal
Safety Improvem	Roadway Improvements Roadway Improvements		Pioneer Valley		Roadway Improvements Roadway Improvements	way Improvem	ents subtotal ▶	\$	- - -	\$ \$	- :	; ;	■ 80% Federal + 20% Non-Federal
Safety Improvem	Roadway Improvements Roadway Improvements  ents Safety Improvements Safety Safety		Pioneer Valley Pioneer Valley		Roadway Improvements  Roadway Improvements  Road	way Improvem	ents subtotal ▶	\$ \$	-	\$ \$ \$	-	S - F -	■ 80% Federal + 20% Non-Federal
Safety Improvem	Roadway Improvements Roadway Improvements  ents Safety Improvements Safety Improvements Safety Improvements Safety Improvements Safety		Pioneer Valley Pioneer Valley Pioneer Valley		Roadway Improvements  Roadway Improvements  Road  Safety Improvements	way Improvem	ents subtotal ▶	\$ \$	-	\$ \$ \$	-	Б - Б -	■ 80% Federal + 20% Non-Federal
Safety Improvem	Roadway Improvements Roadway Improvements  ents Safety Improvements Safety		Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley		Roadway Improvements Roadway Improvements Road Safety Improvements Safety Improvements Safety Improvements	way Improvem	ents subtotal ▶	\$ \$ \$	-	\$ \$ \$ \$	- !	6 - 6 - 6 - 6 -	■ 80% Federal + 20% Non-Federal
Safety Improvem	Roadway Improvements Roadway Improvements  ents Safety Improvements Safety Improvements Safety Improvements Safety Improvements Safety Improvements		Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley		Roadway Improvements  Roadway Improvements  Roadway Improvements  Safety Improvements  Safety Improvements  Safety Improvements  Safety Improvements	way Improvem	ents subtotal ▶	\$ \$ \$ \$ \$	-	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		Б - Б - Б - Б -	■ 80% Federal + 20% Non-Federal
Safety Improvem	Roadway Improvements Roadway Improvements  ents Safety Improvements Safety		Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley		Roadway Improvements Roadway Improvements Road Safety Improvements Safety Improvements Safety Improvements	way Improvem	ents subtotal ▶	\$ \$ \$	-	\$ \$ \$ \$	- !	6 - 6 - 6 - 6 -	■ 80% Federal + 20% Non-Federal

Table 12: Federally Funded Projects Year 2021 (Continued)

ADA Retrofits												
ADA RELIUIIS	ADA Retrofits	••••••	Pioneer Valley		ADA Retrofits	T		\$	-	\$ -	s -	
	ADA Retrofits		Pioneer Valley		ADA Retrofits			\$	-			
	1, 2,			***************************************		ADA Ret	rofits subtotal ▶		-			■ 80% Federal + 20% Non-Federal
ntersection Impro	ovements											
	Intersection				HOLYOKE-TRAFFIC SIGNAL UPGRADES AT 15						***************************************	
	Improvements	606450	Pioneer Valley	Holyoke	INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$ 4	4,450,000	\$ 3,560,000	\$ 890,000	
	Intersection Improvements		Pioneer Valley		Intersection Improvements			\$	-	\$ -	\$ -	
	Intersection Improvements		Pioneer Valley		Intersection Improvements			\$	-	\$ -	\$ -	
***************************************	Intersection		Pioneer Valley		Intersection Improvements			\$	_	\$ -	\$ -	
	Improvements Intersection		r loneer valley		intersection improvements					*	*	
	Improvements		Pioneer Valley		Intersection Improvements			\$	-	\$ -	\$ -	
	Intersection Improvements		Pioneer Valley		Intersection Improvements			\$	-	\$ -	\$ -	
			å		Intersec	tion Improvem	nents subtotal ►	\$ 4	,450,000	\$ 3,560,000	\$ 890,000	■ Funding Split Varies by Funding Source
Intelligent Transp	ortation Systems											
go	Intelligent											
	Transportation Systems		Pioneer Valley		Intelligent Transportation Systems		000000000000000000000000000000000000000	\$	-	\$ -	\$ -	
	Intelligent											
	Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$ -	\$ -	
	Intelligent	•••••										
	Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$ -	\$ -	
					Intelligent Trans	sportation Sy	stem subtotal ▶	\$	-	\$ -	\$ -	■ 80% Federal + 20% Non-Federal
Roadway Reconst	ruction											
***************************************	Roadway Reconstruction		Pioneer Valley		Roadway Reconstruction			\$	-	\$ -	\$ -	
	Roadway		Pioneer Valley		Roadway Reconstruction			\$	-	\$ -	\$ -	
	Reconstruction Roadway		Pioneer Valley		Roadway Reconstruction			\$	_	s -	\$ -	
	Reconstruction Roadway	***************************************								*	***************************************	
	Reconstruction		Pioneer Valley		Roadway Reconstruction			\$		\$ -	\$ -	
					Roadw	ay Reconstru	ction subtotal ▶	\$	-	\$ -	\$ -	■ Funding Split Varies by Funding Source
Section 2C / State	Prioritized Expansi	on Projects										
Bicycles and Pede	etriane											
Jioyoles allu Feut					SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL	I		_				
	Bicycles and Pedestrians	608157	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$ 3	3,694,624	\$ 2,955,699	\$ 738,925	
	Bicycles and Pedestrians	000000000000000000000000000000000000000	Pioneer Valley		Bicycles and Pedestrians			\$	-	\$ -	\$ -	
	Bicycles and							\$		\$ -	\$ -	

## **Table 12: Federally Funded Projects Year 2021 (Continued)**

Capacity								
Capacity	Pioneer Valley	Capacity		\$	- \$	-		
Capacity	Pioneer Valley	Capacity		\$	- \$	-	\$ -	
			Capacity subtotal	<b>&gt;</b> \$	- \$	-	\$ -	■ Funding Split Varies by Funding Source
Section 3 / Planning / Adjustments / Pa	ass-throughs							
lanning / Adjustments / Pass-throughs	 S							
	Pioneer Valley	ABP GANS Repayment	Multiple	\$	- \$	-	\$ -	
	Pioneer Valley	ABP GANS Repayment	Multiple	\$	- \$	-	* -	
	Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	- \$	-	\$ -	
	Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	- \$	-	\$ -	
	Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	- \$	-	\$ -	
	Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	- \$	-	\$ -	
	Pioneer Valley	Metropolitan Planning	Multiple	\$	- \$	-	\$ -	
	Pioneer Valley	Metropolitan Planning	Multiple	\$	- \$	-	\$ -	
	Pioneer Valley	State Planning and Research Work Program I, (SPR I), Planning	Multiple	\$	- \$	-	\$ -	
	Pioneer Valley	State Planning and Research Work Program II, (SPR II), Research	Multiple	\$	- \$	_	\$ -	
***************************************	Pioneer Valley	Railroad Crossings	Multiple	\$	- \$	-	<b>*</b> -	
	Pioneer Valley	Railroad Crossings	Multiple	\$	- \$	-	<b>*</b> -	
	Pioneer Valley	Recreational Trails	Multiple	\$	- \$	-	\$ -	
		Oth	er Statewide Items subtotal	▶ \$	- \$	-	\$ -	■ Funding Split Varies by Funding Source
Section 4 / Non-Federally Aided Projection-Federally Aided Projects	cts							
Non Federal Aid	Pioneer Valley	Non-Federal Aid		\$	_ 84444		\$ -	
Non-Federally Aided Projects	Pioneer Valley	Non-Federal Aid		\$	-		\$ -	
Aueu i iojecis			Non-Federal Aid subtotal	▶ \$	- !!!!!!		\$ -	◀100% Non-Federal
121 Summary				TIP Sect	ion 1 - TIP S	ection 4:	Total of All	
021 Summary				3: ▼	▼		Projects ▼	
			Total	<b>▶</b> \$ 62,75	3 403 \$	_	\$ 62 753 40	3 ◀ Total Spending in Region
			Federal Funde	<b>▶</b>   \$ 50.30	1) /))		\$ 50 302 77	/ Intal Federal Spending in Region
			Federal Funds Non-Federal Funds					<ul> <li>2</li></ul>

## **Table 13: Federally Funded Projects Year 2022**

Amendment / Adjustment Type ▼	-	Project ID ▼	Metropolitan Planning Organization ▼	Municipality Name ▼	MassDOT Project Description▼	MassDOT District ▼	Funding Source ▼	1	Federal Funds ▼	1	Present information as follows, if applicable: a) Present information as follows, if applicable: a) Panning / Design / or Construction; b) total project cost and funding sources used: c) advance construction
►Section 1A / Region	ally Prioritized	Projects									

	s									
Roadway Reconstr	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	STP	\$ 7,390,199	\$ 5,912,159	\$ 1,478,0	Construction / (YOE \$19,797,253 Year 1 FFY 2022 A/C \$7,390,199 Year 2 A/C FFY2023 \$12,407,054 / 66.5 TEC 25% STP
Intersecti Improven	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	STP	\$ 1,866,866	\$ 1,493,493	\$ 373,3	Construction / (YOE \$2,866,866) STP) / 42 TEC / 25% STP, HSIP
Intersecti Improven	606895	Pioneer Valley	Granby	GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	2	HSIP	\$ 1,000,000	\$ 900,000	\$ 100,0	Construction / (YOE \$2,866,866) STP) / 42 TEC / 25% STP, HSIP
Intersecti Improven	606156	Pioneer Valley	Holyoke	HOLYOKE- RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	2	STP	\$ 3,429,583	\$ 2,743,666	\$ 685,9	Construction / (YOE \$3,429,583 STP) / 47 TEC / Pre 25%
Roadway Reconstr	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	STP	\$ 10,652,954	\$ 8,522,363	\$ 2,130,5	Construction / (YOE \$25,805,364) Year 1 FFY 202 A/C \$12,652,410, Year 2 FFY 2022 A/C \$13,152,954 STP / 50 TEC / 25% STP, CMAQ, TA
Roadway Reconstr	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	TAP	\$ 500,000	\$ 400,000	\$ 100,0	Construction / (YOE \$25,805,364) Year 1 FFY 202 00 A/C \$12,652,410, Year 2 FFY 2022 A/C \$13,152,954 STP / 50 TEC / 25% STP, CMAQ, TA
Roadway Reconstr	605032	Pioneer Valley	Hadley	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	2	CMAQ	\$ 2,000,000	\$ 1,600,000	\$ 400,0	Construction / (YOE \$25,805,364) Year 1 FFY 202 00 A/C \$12,652,410, Year 2 FFY 2022 A/C \$13,152,954 STP / 50 TEC / 25% STP, CMAQ, TAI
		Pioneer Valley					\$ -	\$ -	\$	-

Regionally Prioritized Projects subtotal ▶ \$ 26,839,602 \$ 21,571,682 \$ 5,267,920 ◀ 80% Federal + 20% Non-Federal

#### ► Section 1A / Fiscal Constraint Analysis

Section 1A instructions: MPO Template Name) Choose Regional Name from dropdown list to populate header and MPO column; Column C) Enter ID from ProjectInfo; Column E) Choose Municipality Name from dropdown list; Column H) Choose the Funding Source being used for the project - if multiple funding sources are being used enter multiple lines; Column I) Enter the total amount of funds being programmed in this fiscal year and for each funding source; Column J) Federal funds autocalculates. Please verify the amount and only change if needed for flex. Column K) Non-federal funds autocalculates. Please verify the split/match - if matching an FTA flex.

Total Regional Federal Aid	Funds Programmed ▶	\$ 26,839,602	\$ 26,839,603	<b>∢</b> Total	1
				Budget	
ite header and MPO column;	STP programmed ▶	\$ 23,339,602	\$ 18,671,682	<b>⋖</b> STP	Т
H) Choose the Funding Source     the total amount of funds	HSIP programmed ▶	\$ 1,000,000	\$ 900,000	<b>◀</b> HSIP	٦
tes. Please verify the amount	CMAQ programmed ▶	\$ 2,000,000	\$ 1,600,000	<b>⋖</b> CMAQ	
match - if matching an FTA flex.	TAP programmed ▶	\$ 500,000	\$ 400,000	<b>◀</b> TAP	٦

1 Target Funds Available

# Table 13: Federally Funded Projects Year 2022 (Continued)

Other Federal Ald										
Other Federal Aid				T					,	
		Pioneer Valley	Other Federal Aid		HPP	\$	- \$	-	\$ -	
	•	Pioneer Valley	Other Federal Aid		HPP	\$	- \$	-	\$ -	
				Other Federa	al Aid subtotal ▶	\$	- \$	-	\$ -	■ Funding Split Varies by Funding Source
Section 2A / State Prioritized Reliabili	ty Projects									
Bridge Program / Inspections										
Bridge Program		Pioneer Vallev	Bridge Inspection	T	T	\$	- \$	-	<b>S</b> -	
Bridge Program		Pioneer Valley	Bridge Inspection		•	\$	- (\$			
Diage Flogiani		1 Toricci valicy		gram / Inspec	ctions subtotal ▶	<u> </u>	- \$			■ Funding Split Varies by Funding Source
			Blidge File	gram / mopec	Stions Subtotal P	ĮΨ	ĮΨ	,	Ψ	T unding opin values by I unding occure
Bridge Program / Off-System										
Bridge Program	608846	Pioneer Valley	MONSON- BRIDGE REPLACEMENT, M-27-015, OLD WALES ROAD OVER CONANT BROOK	2	STP-BR-OFF	\$	1,742,784 \$		\$ 348,557	
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$	- \$			
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$	- \$		\$ -	
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley	Bridge Program / Off-System			\$	- \$	-	\$ -	
			Bridge Pro	gram / Off-Sy	/stem subtotal ▶	\$	1,742,784   \$	1,394,227	\$ 348,557	■ 80% Federal + 20% Non-Federal
Bridge Program / On-System (NHS)										
Bridge Program	606552	Pioneer Valley	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD	1	NHPP-On	\$	11,378,353 \$	9,102,682	\$ 2,275,671	AC Year 3 of 5, Total Cost \$56,891,767
Bridge Program	***************************************	Pioneer Valley	Bridge Program / On-System (NHS)			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley	Bridge Program / On-System (NHS)		1	\$	- \$		\$ -	
Bridge Program		Pioneer Valley	Bridge Program / On-System (NHS)			\$	- \$		\$ -	
Bridge Program	***************************************	Pioneer Valley	Bridge Program / On-System (NHS)			\$	- \$		\$ -	
				Ön-System (	NHS) subtotal ▶	\$	11,378,353 \$		······	■ Funding Split Varies by Funding Source
	3)									
Bridge Program / On-System (Non-NHS		Pioneer Valley	Bridge Program / On-System (Non-NHS)			\$	- (\$			
Bridge Program		Pioneer Valley	Bridge Program / On-System (Non-NHS)			\$	- (\$		\$ -	
Bridge Program Bridge Program			Pridge Program (On Syntam (Non NUS)			\$	- \$		\$ -	
Bridge Program		Pioneer Valley	Bridge Program / On-System (Non-NHS)							1 000/ 5 1 1 000/ 11 5 1 1
Bridge Program Bridge Program		Pioneer Valley	Bridge Program / On-System (Non-NnS)  Bridge Program / On-System (Non-NnS)	System (Non-	NHS) subtotal ▶	\$	- \$	-	\$ -	■ 80% Federal + 20% Non-Federal
Bridge Program Bridge Program Bridge Program	ince	Pioneer Valley		System (Non-	NHS) subtotal ▶	\$	-  \$	-	\$ -	■ 80% Federal + 20% Non-Federal
Bridge Program Bridge Program Bridge Program	ince	Pioneer Valley Pioneer Valley		System (Non-	NHS) subtotal ▶	<b>\$</b>	-   \$ -   <b>*</b>	ł		■ 80% Federal + 20% Non-Federal
Bridge Program   Bridge Program   Bridge Program	ance		Bridge Program / On-र	System (Non-	NHS) subtotal ►	8	8 .	-		■ 80% Federal + 20% Non-Federal

Table 13: Federally Funded Projects Year 2022 (Continued)

Interstate Pavem			·				<b>~</b>					
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	_	\$ -	\$ -	
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$ -	\$ -	
					Inst	terstate Pave	ment subtotal ▶	\$	-	\$ -	\$ -	◀ 90% Federal + 10% Non-Federal
lon-Interstate Pa	vement											
	Non-Interstate Pavement	608466	Pioneer Valley	Multiple	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	2	NHPP	\$ 4,	163,040	\$ 3,330,432	\$ 832,608	
	Non-Interstate Pavement		Pioneer Valley	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	_	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	_	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	_	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
	Non-Interstate Pavement		Pioneer Valley		Non-Interstate Pavement			\$	-	\$ -	\$ -	
			***************************************	····	Non-Int	terstate Pave	ment subtotal ►	\$ 4,1	63,040	\$ 3,330,432	\$ 832,608	■ 80% Federal + 20% Non-Federal
Roadway Improv	vements											
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$ -	\$ -	
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$ -	\$ -	
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$ -	\$ -	
					Roadv	vay Improven	nents subtotal ▶	\$	-	\$ -	\$ -	■ 80% Federal + 20% Non-Federal
Safety Improven	nonte											
Salety IIIIpioveli	Safety			T		·	T	T_	***************************************			
	Improvements Safety		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements			\$	-	\$ -	\$ -	
	Safety Improvements		Pioneer Valley		Safety Improvements		-	\$	-	\$ -	\$ -	
			······	<del></del>	Sof	- A I	nents subtotal ►	•	-	\$ -	¢	■ Funding Split Varies by Funding Source  ■ Funding Split Varies by Fundi

# Table 13: Federally Funded Projects Year 2022 (Continued)

DA Retrofits												
***************************************	ADA Retrofits	Pioneer Valley		ADA Retrofits	***************************************		\$	-	\$ -	\$	-	
	ADA Retrofits	Pioneer Valley		ADA Retrofits			\$	-	\$ -	\$	-	
			***************************************		ADA Ret	rofits subtotal 🕨	\$	-	\$ -	\$	-	◀ 80% Federal + 20% Non-Federal
tersection Impro	ovements											
	Intersection 6085	60 Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST JAMES AVENUE AT TAPLEY STREET	2	HSIP	\$	2,688,000	\$ 2,419,200	\$	268,800	
	Intersection 6085	65 Pioneer Valley	Springfield	SPRINGFIELD- IMPROVEMENTS ON ST. JAMES AVENUE AT ST JAMES BOULEVARD AND CAREW STREET AT TAPLEY STREET	2	HSIP	\$	2,784,000	\$ 2,505,600	\$	278,400	
	Intersection Improvements	Pioneer Valley		Intersection Improvements			\$	-	\$ -	\$	-	
	Intersection Improvements	Pioneer Valley		Intersection Improvements			\$	-	\$ -	\$	-	
	Intersection Improvements	Pioneer Valley		Intersection Improvements			\$	-	\$ -	\$	-	
	Intersection Improvements	Pioneer Valley		Intersection Improvements			\$	-	\$ -	\$	-	■ Funding Split Varies by Funding Source
elligent Transp	ortation Systems Intelligent											
		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$ -	\$	-	
	Systems											
	Intelligent Transportation Systems	Pioneer Valley	woodood	Intelligent Transportation Systems			\$	-	\$ -	\$	-	
	Intelligent							-	\$ -	\$	-	
	Transportation	Pioneer Valley		Intelligent Transportation Systems			\$					
		Pioneer Valley			portation Sy	stem subtotal ▶	Ť	_	\$ <del>-</del>	\$	-	■ 80% Federal + 20% Non-Federal
adway Recons	Transportation Systems	Pioneer Valley			portation Sy	stem subtotal ▶	Ť	-	\$ -	\$	-	■ 80% Federal + 20% Non-Federal
adway Recons	Transportation Systems	Pioneer Valley Pioneer Valley			portation Sy	stem subtotal ▶	Ť		\$ -	\$	-	■ 80% Federal + 20% Non-Federal
oadway Recons	Transportation Systems  truction Roadway			Intelligent Trans	portation Sy	stem subtotal ▶	\$			1		■ 80% Federal + 20% Non-Federal
oadway Recons	Transportation Systems  truction Roadway Reconstruction Roadway	Pioneer Valley		Intelligent Trans	portation Sy	stem subtotal ▶	<b>\$</b>		\$ -	\$	-	■ 80% Federal + 20% Non-Federal

Federal Aid Regional Project Listings \_\_\_\_\_\_65

**Table 13: Federally Funded Projects Year 2022 (Continued)** 

cycles and Ped	estrians					·		_					
	Bicycles and Pedestrians	602912	Pioneer Valley	Chicopee	CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	2	CMAQ	\$	2,273,911	\$ 1,819,12	9 \$	454,782	
	Bicycles and Pedestrians		Pioneer Valley		Bicycles and Pedestrians			\$	-	\$ -	\$	-	
	Bicycles and Pedestrians		Pioneer Valley		Bicycles and Pedestrians			\$	-	\$ -	\$	-	
					Bicycle	s and Pedest	rians subtotal ▶	\$	2,273,911	\$ 1,819,129	\$	454,782	◀ 80% Federal + 20% Non-Federal
pacity													
paorey	Capacity		Pioneer Valley		Capacity			\$	-	\$ -	\$	-	
	Capacity		Pioneer Valley		Capacity			\$	-		\$	_	
	15-15-15					Can	acity subtotal ▶		-	******************************	\$	_	■ Funding Split Varies by Funding Source
						Oup	doity odbiolai P	1 4		Ψ	ĮΨ		Tanding opin variously randing coar
tion 3 / Plann	ing / Adjustments / F	ass-throughs	;										
nning / Adjust	ments / Pass-througi	าร											
			Pioneer Valley		ABP GANS Repayment	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		ABP GANS Repayment	Multiple		\$	-	<b>^\$</b> -	\$	-	
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		Metropolitan Planning	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		Metropolitan Planning	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		State Planning and Research Work Program I, (SPR I), Planning	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		State Planning and Research Work Program II, (SPR II), Research	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		Railroad Crossings	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		Railroad Crossings	Multiple		\$	-	\$ -	\$	-	
			Pioneer Valley		Recreational Trails	Multiple		\$	-	\$ -	\$	-	
tion 4 / Non-F	ederally Aided Proje	ects			Oth	er Statewide I	tems subtotal ▶	\$	-	\$ -	\$	-	■ Funding Split Varies by Funding Source    Funding Split Varies   Funding Source
n-Federally Aid	ded Projects												
	Non Federal Aid		Pioneer Valley		Non-Federal Aid	T		\$	-		∷″\$	-	
	Non-Federally Aided Projects		Pioneer Valley		Non-Federal Aid			\$	-		\$	<u>-</u>	
						Non-Feder	』 al Aid subtotal▶	\$	-		\$	-	◀100% Non-Federal
								TID	Section 4	TIP Section 4	. Tota	l of All	
22 Sumr	nary							3: ▼	Section 1 -	TIP Section 4 ▼		ects ▼	
							Total ▶	· \$ 5	1,869,690	\$ -	\$	51 869 690	■ Total Spending in Region

<sup>701</sup> CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road.

# **Table 14: Federally Funded Projects Year 2023**

➤ Section 1A / Region: ➤ Regionally Prioritize			Organization ▼	The second secon	Description ▼  WEST SPRINGFIELD- RECONSTRUCTION OF			Funds <b>▼</b>			and funding sources used: c) advance construction
	ed Projects Roadway		Pioneer Valley	To the second se	WEST SPRINGFIELD- RECONSTRUCTION OF						
	ed Projects Roadway		Pioneer Valley		WEST SPRINGFIELD- RECONSTRUCTION OF						
► Regionally Prioritize	Roadway	608374	Pioneer Valley		WEST SPRINGFIELD- RECONSTRUCTION OF						
► Regionally Prioritiz	Roadway	608374	Pioneer Valley		WEST SPRINGFIELD- RECONSTRUCTION OF						
	1	608374	Pioneer Valley	***************************************	WEST SPRINGFIELD- RECONSTRUCTION OF		8			T	
		1		West Springfield	MEMORIAL AVENUE (ROUTE 147) FROM	2	STP	\$ 8,907,054	\$ 7,125,643	\$ 1,781,411	Construction / (YOE \$19,797,253 Year 1 FFY 202: A/C \$7,390,199 Year 2 A/C FFY2023 \$12,407,054 66.5 TEC 25% STP, CMAQ, TAP, HSIP
	Roadway Reconstruction	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF	2	CMAQ	\$ 2,000,000	\$ 1,600,000	\$ 400,000	Construction / (YOE \$24,552,371 Year 1 FFY 2022 A/C \$7,390,199 Year 2 A/C FFY2023 \$17,162,172 66.5 TEC 25% STP, CMAQ, TAP, HSIP
	Roadway Reconstruction	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF	2	TAP	\$ 500,000	\$ 400,000	\$ 100,000	Construction / (YOE \$24,552,371 Year 1 FFY 2022 A/C \$7,390,199 Year 2 A/C FFY2023 \$17,162,172 66.5 TEC 25% STP, CMAQ, TAP, HSIP
	Roadway Reconstruction	608374	Pioneer Valley	West Springfield	WEST SPRINGFIELD- RECONSTRUCTION OF MEMORIAL AVENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL AVENUE ROTARY (1.4 MILES)	2	HSIP	\$ 1,000,000	\$ 900,000	,	Construction / (YOE \$24,552,371 Year 1 FFY 202 A/C \$7,390,199 Year 2 A/C FFY2023 \$17,162,172 66.5 TEC 25% STP, CMAQ, TAP, HSIP
	Roadway Reconstruction	PV0002	Pioneer Valley	Worthington	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE II)	1	STP	\$ 8,584,000	\$ 6,867,200	\$ 1,716,800	Construction / (YOE \$8,584,000) STP / 41.5 TEC 75% Project Phase I funded in FFY 2019 Total
	Roadway Reconstruction	608881	Pioneer Valley	Longmeadow	RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	2	STP	\$ 6,064,675	\$ 4,851,740	\$ 1,212,935	Construction (YOE \$6,064,675 / 54.5 TEC / Pre 25%
			Pioneer Valley		NILLO)			\$ -	\$ -	\$ -	
		<del>1</del>	,		Regionally F	Prioritized Pro	piects subtotal		· T		■ 80% Federal + 20% Non-Federal
					. regionally .		,	,,,-	,,500	,,	1
Section 1A / Fiscal C	Constraint Analy	/sis									
	·				<u>Total Regional Federa</u>	l Aid Funds	Programmed	<b>27,055,729</b>		<b>∢</b> Total Budget	\$ 370,073 Target Funds Available
					m dropdow n list to populate header and MHO column;	STI	orogrammed	\$ 23,555,729			<u> </u>
					m dropdown list; Column H) Choose the Funding Source			\$ 1,000,000			1
					iple lines; <b>Column I)</b> Enter the total amount of funds			\$ 2,000,000		·	
					ederal funds autocalculates. Please verify the amount as. Please verify the split/match - if matching an FTA flex,		programmed programmed		(cardonosconoscolosconoscolosconosconosco	~{~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1

Table 14: Federally Funded Projects Year 2023 (Continued)

ther Federal Aid	·	,				***************************************					argamenaeaneaneaneaneaneaneaneaneaneaneaneane
		Pioneer Valley		Other Federal Aid		HPP	\$	- \$	- ]	\$ -	
		Pioneer Valley		Other Federal Aid		HPP	\$	- \$	-	\$ -	
					Other Federa	al Aid subtotal ▶	\$	- \$	-	\$ -	■ Funding Split Varies by Funding Sour
ection 2A / State Prioritized Relial	ility Projects										
ridge Program / Inspections											
Bridge Program		Pioneer Valley		Bridge Inspection			\$	- \$			
Bridge Program		Pioneer Valley		Bridge Inspection			\$	- \$	-	\$ -	
		3		Bridge Pro	gram / Inspect	tions subtotal ▶	\$	- \$			◀ Funding Split Varies by Funding Sou
ridge Program / Off-System	y	ç									ayeasemeessessessessessessessessessessessess
Bridge Program	TBA	Pioneer Valley	Ludlow	LUDLOW- BRIDGE REPLACEMENT, L-16-026, PINEY LANE OVER BROAD BROOK	2	STP-BR-OFF	\$ 598	,560 \$	478,848	\$ 119,712	
Bridge Program		Pioneer Valley		Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley		Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley		Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley		Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley		Bridge Program / Off-System			\$	- \$	-	\$ -	
Bridge Program		Pioneer Valley		Bridge Program / Off-System			\$	- \$	-	\$ -	
ridge Program / On-System (NHS)											
Bridge Program	608848	Pioneer Valley	Springfield	SPRINGFIELD- BRIDGE REPLACEMENT, S-24-	2	NHPP-On	\$ 5,723	440 \$	4,578,752	\$ 1,144,688	
		Pioneer Valley Pioneer Valley		016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24-	2	NHPP-On				· · · · · · · · · · · · · · · · · · ·	
Bridge Program  Bridge Program  Bridge Program	608853	Pioneer Valley Pioneer Valley Pioneer Valley	Springfield Springfield Northampton	016, ARMORY STREET OVER CSX MAINLINE				640 \$	3,158,912	\$ 789,728	AC Year 4 of 5, Total Cost \$56,891,767
Bridge Program  Bridge Program	608853	Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD	2	NHPP-On	\$ 3,948	640 \$	3,158,912 9,102,682	\$ 789,728	AC Year 4 of 5, Total Cost \$56,891,767
Bridge Program  Bridge Program  Bridge Program	608853	Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)	2	NHPP-On	\$ 3,948 \$ 11,378	640 \$ ,353 \$	3,158,912 9,102,682	\$ 789,728 \$ 2,275,671	AC Year 4 of 5, Total Cost \$56,891,767
Bridge Program  Bridge Program  Bridge Program  Bridge Program	608853	Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)	2	NHPP-On NHPP-On	\$ 3,948 \$ 11,378 \$	.353 \$ - \$ - \$	3,158,912 9,102,682 -	\$ 789,728 \$ 2,275,671 \$ - \$ -	AC Year 4 of 5, Total Cost \$56,891,767  ■ Funding Split Varies by Funding Sou
Bridge Program  Bridge Program  Bridge Program  Bridge Program	608853	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS) Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)	2	NHPP-On NHPP-On	\$ 3,948 \$ 11,378 \$ \$ \$ 21,050		3,158,912 9,102,682 - - - - - - - - - - - - - - - - - - -	\$ 789,728 \$ 2,275,671 \$ - \$ - \$ 4,210,087	
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program	608853	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)	2	NHPP-On NHPP-On	\$ 3,948 \$ 11,378 \$ \$ 21,050	. \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$	3,158,912 9,102,682 - - 5 16,840,346	\$ 789,728 \$ 2,275,671 \$ - \$ - \$ 4,210,087	
Bridge Program  Bridge Program  Bridge Program  Bridge Program  idge Program / On-System (Non-Non-Non-Non-Non-Non-Non-Non-Non-Non-	608853	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)  Bridge Program / On-System (Non-NHS)	2	NHPP-On NHPP-On	\$ 3,948 \$ 11,378 \$ \$ 21,050	. \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$	3,158,912 9,102,682 - - 5 16,840,346	\$ 789,728 \$ 2,275,671 \$ - \$ - \$ 4,210,087 \$ - \$ -	
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Bridge Program / On-System (Non-Non-Non-Non-Non-Non-Non-Non-Non-Non-	608853	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (N	NHPP-On NHPP-On NHS) subtotal ▶	\$ 3,948 \$ 11,378 \$ \$ \$ 21,050	640 \$ 353 \$ - \$ - \$ 433 \$ - \$ - \$ - \$	3,158,912 9,102,682 - - 5 16,840,346	\$ 789,728 \$ 2,275,671 \$ - \$ - \$ 4,210,087 \$ - \$ - \$ -	▼ Funding Split Varies by Funding Sou
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Fridge Program / On-System (Non-Non-Non-Non-Non-Non-Non-Non-Non-Non-	608853	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (N	NHPP-On NHPP-On NHS) subtotal ▶	\$ 3,948 \$ 11,378 \$ \$ \$ 21,050	. \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$	3,158,912 9,102,682 - - 5 16,840,346	\$ 789,728 \$ 2,275,671 \$ - \$ - \$ 4,210,087 \$ - \$ - \$ -	
Bridge Program  Bridge Program  Bridge Program  Bridge Program  Fridge Program / On-System (Non-Nord)  Bridge Program  Bridge Program  Bridge Program  Bridge Program	608853 606552 NHS)	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (N	NHPP-On NHPP-On NHS) subtotal ▶	\$ 3,948 \$ 11,378 \$ \$ \$ 21,050	640 \$ 353 \$ - \$ - \$ 433 \$ - \$ - \$ - \$	3,158,912 9,102,682 - - 5 16,840,346	\$ 789,728 \$ 2,275,671 \$ - \$ - \$ 4,210,087 \$ - \$ - \$ -	■ Funding Split Varies by Funding Sou
Bridge Program  Bridge Program  Bridge Program  Bridge Program  ridge Program / On-System (Non-Name of the Program of the Bridge Pro	608853 606552 NHS)	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (N	NHPP-On NHPP-On NHS) subtotal ▶	\$ 3,948 \$ 11,378 \$ \$ \$ 21,050	640 \$ 353 \$ - \$ - \$ 433 \$ - \$ - \$ - \$	3,158,912 9,102,682 - - - - - - - - - - - - -	\$ 789,728 \$ 2,275,671 \$ - \$ - \$ 4,210,087 \$ - \$ - \$ -	■ Funding Split Varies by Funding Sou
Bridge Program  Bridge Program  Bridge Program  Bridge Program  ridge Program / On-System (Non-Name of the Program of the Bridge Pro	608853 606552 NHS)	Pioneer Valley	Springfield	016, ARMORY STREET OVER CSX MAINLINE SPRINGFIELD- BRIDGE REPLACEMENT, S-24- 026, ARMORY STREET OVER CSX  NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD  Bridge Program / On-System (NHS)  Bridge Program / On-System (NHS)  Bridge Program / On-System (Non-NHS)  Bridge Program / On-System (Non-NHS)	2 2 On-System (N	NHPP-On NHPP-On NHS) subtotal ▶	\$ 3,948 \$ 11,378 \$ \$ <b>21,050</b> \$ \$	640 \$ .353 \$ - \$ - \$ 433 \$ - \$ - \$ - \$ - \$	3,158,912 9,102,682 - - - - - - - - - - - - -	\$ 789,728 \$ 2,275,671 \$ - \$ 4,210,087 \$ - \$ - \$ - \$ -	■ Funding Split Varies by Funding Sou

Table 14: Federally Funded Projects Year 2023 (Continued)

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	Interstate	Pioneer Valley	Interstate Pavement		T.	\$	. \$	-	\$ -	
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	Non-Interstate	Pioneer Valley	Non-Interstate Pavement			\$	· \$	_	\$ -	
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oadway Improv	ements									
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	Improvements	Pioneer Valley	Roadway Improvements		:	Ф	· \$		φ -	
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	Improvements Roadway Improvements	Pioneer Valley Pioneer Valley	Roadway Improvements  Roadway Improvements	***************************************	-		. \$		\$ -	
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afety Improvem	Improvements Roadway Improvements Roadway Improvements	Pioneer Valley	Roadway Improvements	Roadway Improven		\$	· \$	-	\$ - \$ -	■ 80% Federal + 20% Non-Federal
afety Improvem	Improvements Roadway Improvements Roadway Improvements Improvements	Pioneer Valley Pioneer Valley	Roadway Improvements  Roadway Improvements	Roadway Improven	nents subtotal ▶	\$ \$	\$ \$	-	\$ - \$ -	■ 80% Federal + 20% Non-Federal
afety Improvem	Improvements Roadway Improvements Roadway Improvements	Pioneer Valley	Roadway Improvements	Roadway Improvem	nents subtotal ▶	\$	· \$	-	\$ - \$ -	■ 80% Federal + 20% Non-Federal
afety Improvem	Improvements Roadway Improvements Roadway Improvements  Roadway Improvements  ents Safety	Pioneer Valley Pioneer Valley Pioneer Valley	Roadway Improvements  Roadway Improvements  Safety Improvements	Roadway Improvem	nents subtotal ▶	\$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ - \$ - \$ -	■ 80% Federal + 20% Non-Federal
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afety Improvem	Improvements Roadway Improvements Roadway Improvements  Roadway Improvements  ents Safety Improvements Safety Safety Safety	Pioneer Valley Pioneer Valley  Pioneer Valley  Pioneer Valley  Pioneer Valley	Roadway Improvements Roadway Improvements Safety Improvements Safety Improvements	Roadway Improvem	nents subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		\$ - \$ - \$ - \$ -	■ 80% Federal + 20% Non-Federal
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afety Improvem	Improvements Roadway Improvements Roadway Improvements  ents Safety Improvements Safety	Pioneer Valley Pioneer Valley  Pioneer Valley  Pioneer Valley  Pioneer Valley  Pioneer Valley  Pioneer Valley	Roadway Improvements  Roadway Improvements  Safety Improvements  Safety Improvements  Safety Improvements  Safety Improvements  Safety Improvements	Roadway Improvem	nents subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-	\$ - \$ - \$ - \$ - \$ -	■ 80% Federal + 20% Non-Federal
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Table 14: Federally Funded Projects Year 2023 (Continued)

ADA Retrofits								
ADA Retrofits	Pioneer Valley	ADA Retrofits		\$	-	\$ -	\$	-
ADA Retrofits	Pioneer Valley	ADA Retrofits		\$	-	\$ -	\$	-
			ADA Ret	rofits subtotal ► \$	-	\$ -	\$	- ■ 80% Federal + 20% Non-Federal
itersection Improvements								
Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$ -	\$	-
Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$ -	\$	-
Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$ -	\$	-
Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$ -	\$	-
Intersection Improvements	Pioneer Valley	Intersection Improvements		\$	-	\$ -	\$	-
Intersection Improvements	Pioneer Valley	Intersection Improvements		\$		\$ -	\$	-
		line	rsection improvem	ents subtotal ► \$	-	\$ -	\$	-
itelligent Transportation Systems				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Intelligent Transportation Systems	Pioneer Valley	Intelligent Transportation Systems		\$	-	\$ -	\$	-
Intelligent Transportation	Pioneer Valley	Intelligent Transportation Systems		\$	-	\$ -	\$	-
Intelligent Transportation Systems Intelligent						~		
Intelligent Transportation Systems	Pioneer Valley Pioneer Valley	Intelligent Transportation Systems		\$	-	\$ -	\$	-
Intelligent Transportation Systems Intelligent Transportation		Intelligent Transportation Systems	Transportation Sys			\$ -	\$	
Intelligent Transportation Systems Intelligent Transportation Systems		Intelligent Transportation Systems	Transportation Sys	\$	-	\$ -	\$	-
Intelligent Transportation Systems Intelligent Transportation Systems		Intelligent Transportation Systems	Transportation Sys	\$	-	\$ -	\$	-
Intelligent Transportation Systems Intelligent Transportation Systems Oadway Reconstruction Roadway	Pioneer Valley	Intelligent Transportation Systems Intelligent	Transportation Sys	\$ stem subtotal ▶ \$	<u>-</u>	\$ -	\$	- ■ 80% Federal + 20% Non-Federal
Intelligent Transportation Systems Intelligent Transportation Systems  Oadway Reconstruction Roadway Reconstruction Roadway Readway Readway	Pioneer Valley  Pioneer Valley	Intelligent Transportation Systems  Intelligent  Roadway Reconstruction	Transportation Sys	\$ stem subtotal ▶ \$	-	\$ - \$ -	\$ \$	-

**Table 14: Federally Funded Projects Year 2023 (Continued)** 

Bicycles and Pe	doctriono										
Bicycles and Pe	Bicycles and Pedestrians	607283	Pioneer Valley	Southampton	SOUTHAMPTON- GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN ROAD TO	2	CMAQ	\$ 7,053,63	8 \$ 5,642,910	\$ 1,410,728	3
	Bicycles and		Pioneer Valley		ROUTE 10 (3.5 MILES)  Bicycles and Pedestrians			\$	· \$ -	s -	
	Pedestrians				20070100 4114 1 04004114110			<b>Y</b>	Ť	Ť	
	Bicycles and Pedestrians		Pioneer Valley		Bicycles and Pedestrians			\$ -	\$ -	\$ -	
					Bicycle	s and Pedestr	ians subtotal ▶	\$ 7,053,63	<b>3</b> \$ 5,642,910	\$ 1,410,728	■ 80% Federal + 20% Non-Federal
apacity											
	Capacity		Pioneer Valley		Capacity					\$ -	
	Capacity		Pioneer Valley		Capacity				\$ - \$ -	\$ -	■ Funding Split Varies by Funding Source
ection 3 / Plan	ning / Adjustments / I	Pass-throughs	;								
anning / Adju	stments / Pass-throug				10000000		000000000000000000000000000000000000000			-	
			Pioneer Valley		ABP GANS Repayment	Multiple		1 .		\$ -	
			Pioneer Valley		ABP GANS Repayment	Multiple			\$ -		
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple			- \$		
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple			- \$	<del></del>	
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple			- \$		
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple					
			Pioneer Valley		Metropolitan Planning	Multiple		L T	- \$	<u></u>	
			Pioneer Valley		Metropolitan Planning	Multiple		\$		-	
			Pioneer Valley		State Planning and Research Work Program I, (SPR I), Planning	Multiple		\$ -	\$ -	\$ -	
			Pioneer Valley		State Planning and Research Work Program II, (SPR II), Research	Multiple		\$ .	\$ -	\$ -	
			Pioneer Valley		Railroad Crossings	Multiple		\$ .	- \$	\$ -	
			Pioneer Valley		Railroad Crossings	Multiple		\$ .	\$ -	\$ -	
			Pioneer Valley		Recreational Trails	Multiple		\$ .	\$ -	\$ -	
ection 4 / Non	Federally Aided Proj	ects			Oth	er Statewide it	ems subtotal ▶	-	-	-	■ Funding Split Varies by Funding Source    Institute
on-Federally A	Aided Projects										
	Non Federal Aid		Pioneer Valley		Non-Federal Aid			\$		\$ -	
	Non-Federally Aided Projects		Pioneer Valley		Non-Federal Aid			\$ -		\$ -	
						Non-Federa	al Aid subtotal▶	\$ -		\$ -	■100% Non-Federal
023 Sum	marv								1 - TIP Section 4		
								3: ▼	▼	Projects ▼	
								\$ 55,758,36			☐ <b>Total Spending in Region</b>
							ederal Funds ► ederal Funds ►				<ul><li>3 ■ Total Federal Spending in Region</li><li>2 ■ Total Non-Federal Spending in Region</li></ul>

## **UNIVERSE OF PROJECTS**

Community	SID	Project Name and Description	Design	TEC	Estimated Cost
				Score	
Agawam	600513	RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S.	25	27.0	\$2,239,065
	<b>7</b>	WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)			
Agawam	603372	RECONSTRUCTION ON ROUTE 5 CONNECTOR TO ROUTE 57,	0	53.0	\$11,670,939
A	(07216	INCLUDES A-05-013 & A-05-014	0	22.0	¢5 500 010
Agawam	00/310	RECONSTRUCTION OF ROUTE 187, FROM SOUTHWICK/SPRINGFIELD STREET TO ALLISON LANE (1.29 MILES	0	33.8	\$5,562,610
		PHASE II)			
Agawam	607317	AGAWAM- RECONSTRUCTION OF ROUTE 187, FROM ALLISON	0	33.8	\$7,589,668
1 igu wum	007517	LANE TO THE WESTFIELD CITY LINE (1.69 MILES - PHASE III)	Ü	55.0	ψ1,505,000
Amherst	608084	AMHERST - IMPROVEMENTS & RELATED WORK ON ROUTES 9 &	25	53.5	\$3,353,577
		116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8			, ,
		MILES)			
Amherst / Belchertown	608719	AMHERST- BELCHERTOWN- NORWOTTUCK RAIL TRAIL	0	12.0	\$1,083,220.00
		RESURFACING, FROM STATION ROAD IN AMHERST TO WARREN			
		WRIGHT ROAD IN BELCHERTOWN (1.5 MILES)			
Belchertown	608412	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES	25	59.0	\$4,738,044
		202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2			
	-004	MILES)			******
Belchertwon / Granby	608466	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK	0	17	\$4,491,288.00
Chesterfield	600006	ON ROUTE 202 RECONSTRUCTION OF NORTH ROAD AND DAMON POND ROAD	0	10	\$4.441.000.00
	_			10	\$4,441,000.00
Chicopee	602911	CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM	75	27 (4.85)	\$3,122,734
		BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES) INCL NEW BRIDGE OVER OVERFLOW CHANNEL			
Chicopee	602912	CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION,	25	21.5	\$4,000,000
Спеорее	002712	FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON	23	21.5	φ+,000,000
		STREET) (1 MILE)			
Chicopee	604434	RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM	25	48.5	\$7,603,801
•		MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)			
Chicopee	606892	SLOPE PROTECTION IMPROVEMENTS AT I-391 BRIDGE OVER THE	0	7.0	\$282,622.00
		CONNECTICUT RIVER			
Chicopee	607736		25	41.5	\$5,800,000
		INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM			
		FULLER ROAD TO ABBEY STREET			*****
Chicopee		CHICOPEE - INTERSECTION RECONSTRUCTION, MONTGOVERY	NA		\$6,000,000
		ROAD AT GRANBY ROAD AND MCKINSTRY A VENUE, AND MONTGOMERY ROAD AT TURNPIKE ACCESS ROAD			
Cummington	606797	Route 9 Retaining Wall	0	8.0	\$1,660,000
ų.		_			\$2,037,200.00
Easthampton	008377	EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON A VENUE TO HIGH	0	62.0	\$2,037,200.00
		STREET (0.36 MILES)			
Easthampton/	608423	IMPROVEMENTS AND RELATED WORK ON TWO SECTIONS OF	0	28.5	\$2,799,540
Southampton	000 123	ROUTE 10 IN EASTHAMPTON AND SOUTHAMPTON	Ü	20.3	Ψ2,722,510
Goshen	602888	Route 9 reconstruction	0	25.0	\$7,500,000
Granby		Route 202 Intersection Improvements 2 Locations @ 5 Corners and @	25	42.0	\$1,749,527
J	223070	School Street		.2.0	+-,> <b>,</b> ,
Granby / South Hadley	607474	GRANBY- SOUTH HADLEY- RESURFACING & RELATED WORK ON	25	22.0	\$5,751,651
		ROUTE 202, FROM LYMAN STREET SOUTH HADLEY TO PLEASANT			' '
		STREET GRANBY (2 MILES)			
Granville	600726	GRANVILLE- RECONSTRUCTION OF ROUTE 57	0	29.0	\$7,000,000

# **Table 15: Universe of Projects**

Hadley	605032	HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	25	50.0	\$20,006,920
Hadley	606547	PEDESTRIAN SIGNAL INSTALLATION AT 2 LOCATIONS ALONG ROUTE 9 NEAR WEST ST	0	14.5	\$134,600
Hadley	607886	RESURFACING AND RELATED WORK ON ROUTE 47 FROM COMINS DRIVE TO OLD RIVER DRIVE, INCLUDES CULVERT REPLACEMENT AT RUSSELVILLE BROOK	0	16 (2.88)	\$2,100,000
Hadley	608089	INTERSECTION, BICYCLE AND PEDESTRIAN IMPROVEMENTS @ ROUTES 9, 116 & WESTGATE CENTER DRIVE	0	25.5	\$1,544,720
Hatfield	608553	HATFIELD- RESURFACING AND RELATED WORK ON ROUTES 5 &10, FROM 350 FEET NORTH OF CHURCH AVE TO THE WHATELY TOWN LINE (3.2 MILES)	0	6.5	\$3,124,760.40
Holland		HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM WALES ROAD TO STURBRIDGE STREET (0.9 MILES - PHASE II)	0	27.5	\$1,051,476
Holyoke	606156	RECONSTRUCTION OF I-91 INTERCHANGE 17 & ROUTE 141	0	47.0	\$2,990,728
Holyoke	606450	TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	25	45.5	\$4,234,543
Holyoke /West Springfield	604209	REHABILITATION OF ROUTE 5 (RIVERDALE ROAD), FROM I-91 (INTERCHANGE 13) TO MAIN STREET IN HOLYOKE & FROM ELM STREET TO NORTH ELM STREET IN WEST SPRINGFIELD (3.2 MILES)	25	49.0	\$9,619,997
Longmeadow	607430	RESURFACING & RELATED WORK ON LONGMEADOW STREET (ROUTE 5), FROM THE CT S.L. TO CONVERSE STREET (2.88 MILES)	25	44.5	\$2,394,860
Longmeadow / Springfield	606469	RETAINING WALL REPLACEMENT/REHABILITATION ON I-91 (SB)	0		\$6,143,750
Longmeadow / Springfield		RESURFACING AND INTERSECTION IMPROVEMENTS ON LONGMEADOW STREET (ROUTE 5) AND CONVERSE STREET (0.84 MILES)	0	54.5	\$5,228,167.90
Northampton	605048	IMPROVEMENTS ON ROUTE 5 (MOUNT TOM ROAD) - FROM BRIDGE E-5-4 OVER THE MANHAN RIVER TO 850' SOUTH OF I-91 NB EXIT 18 RAMP (0.85 MILES)	0	40.0	\$1,200,112
Northampton		NORTHAMPTON- ROUNDABOUT CONSTRUCTION AT INTERSECTION ROUTES 5/10 (NORTH KING STREET) & HATFIELD STREET	25	55.0	\$4,612,652
Northampton	607502	INTERSECTION IMPROVEMENTS AT KING STREET, NORTH STREET & SUMMER STREET AND AT KING STREET & FINN STREET	25	65.0	\$3,305,959
Northampton	607893	NORTHAMPTON- INTERSECTION IMPROVEMENTS @ ELM STREET, MAIN STREET, WEST STREET, STATE STREET & NEW SOUTH STREET	0	68.0	\$2,000,000
Northampton	608236	NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, IONSTRUNCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL (old#180525)	75	66.5	\$9,854,667
Northampton		NORTHAMPTON- ROCKY HILL GREENWAY MULTI-USE TRAIL, FROM THE MANHAN RAIL TRAIL TO ROCKY HILL ROAD (0.4 MILES)	25	32.0	\$621,050
Northampton		NORTHAMPTON- IMPROVEMENTS AND RELATED WORK ON MAIN STREET (ROUTE 9) FROM MASONIC STREET TO MARKET/HAWLET STREET (0.33 MILES)	0	74.0	\$5,354,523.20

Table 15: Universe of Projects (CMAQ Eligable)

Palmer	601504	RECONSTRUCTION OF ROUTE 32, FROM 765 FT. SOUTH OF STIMSON STREET TO 1/2 MILES SOUTH OF RIVER STREET (PHASE	0	18.0	\$3,570,304
	F	I) (1.63 MILES) (TFPC \$6,134,080) HPP Eamark \$2,500,000	_		
Palmer	607372	PALMER- RECONSTRUCTION OF ROUTE 32, FROM 1/2 MILE SOUTH OF RIVER STREET TO THE WARE T.L. (PHASE II) (2.1 MILES)	0	14.0	\$8,476,770
Russell	608945	RUSSELL- RESURFACING & RELATED WORK ON ROUTE 20	0	14.0	\$6,500,000
South Hadley	608473	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	0	26.0	\$2,338,560.00
South Hadley	608785	MAIN STREET ROAD IMPROVEMENT PROJECT	0	38.5	\$3,089,720
Southampton	604653	REHABILITATION OF EAST STREET - FROM COLLEGE HIGHWAY EASTERLY TO COUNTY ROAD (2.6 MILES)	25	31.5	\$5,022,200
Southampton	607823	GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN RD TO ROUTE 10 (3.5 MILES)	0	19.5	\$6,080,722
Southwick	604155	RESURFACING & RELATED WORK ON ROUTE 10/202, COLLEGE HIGHWAY (NORTHERLY SECTION) FROM THE WESTFIELD/SOUTHWICK T.L. TO TANNERY ROAD (1.4 MILES)	0	18.5	\$3,600,000
Southwick	606141	RECONSTRUCTION OF FEEDING HILLS ROAD (ROUTE 57), FROM COLLEGE HIGHWAY TO THE AGAWAM T.L	0	42.5	\$4,080,000
Springfield	608157	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN A VENUE (1.5 MILES)	0	36.5	\$4,300,000
Springfield	608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE A VENUE	25	49.5	\$1,886,880
Springfield	608717	SPRINGFIELD- RECONSTRUCTION OF SUMNER A VENUE AT DICKINSON STREET AND BELMONT A VENUE (THE "X")	0	70.5	\$8,055,000.00
Springfield	608718	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BERKSHIRE AVENUE, COTTAGE AND HARVEY STREETS	0	41.5	\$2,063,908.40
Springfield	608782	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT COTTAGE STREET, ROBBINS ROAD AND INDUSTRY AVE	0	46.5	\$1,800,000
Wales	605669	PEDESTRIAN ACCESS IMPROVEMENTS & RELATED WORK ON ROUTE 19	0	9.0	\$312,500
Wales	608163	W ALES- RECONSTRUCTION & IMPROVEMENTS ON MONSON ROAD, FROM THE MONSON T.L. TO REED HILL ROAD (1.5 MILES)	25	39.5	\$4,118,974
Ware	607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET, SOUTH STREET & CHURCH STREET	75	55.0	\$2,475,087
West Springfield	604746	BRIDGE REPLACEMENT, W-21-006, CSX RAILROAD OVER UNION STREET	0	21.0	\$12,403,054
West Springfield	608374	RECONSTRUCTION OF MEMORIAL A VENUE (ROUTE 147), FROM COLONY ROAD TO THE MEMORIAL A VENUE ROTARY (1.4 MILES)	25	69.5	\$19,573,000
Westfield	603783	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION)	75	36.5 (6.58)	\$6,250,000
Westfield	604445	RECONSTRUCTION ON ROUTE 187, INCLUDES REPLACEMENT OF W-25-002, SHERMAN'S MILL BRIDGE OVER GREAT BROOK AT PONTOOSIC ROAD			\$6,250,000
Westfield	607773	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN A VENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II) Eastern Section	25	48.5	\$6,047,573

Westfield	608073	WESTFIELD RIVER LEVEE MULTI-USE PATH CONSTRUCTION, FROM CONGRESS ST TO WILLIAMS RIDING WAY (NEAR MEADOW ST) (2MILES)	0	36	\$4,801,730
Westfield	608487	WESTFIELD- RESURFACING AND RELATED WORK ON ROUTE 10 AND 202	0	29	\$2,760,000
Wilbraham	608489	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	0	36.0	\$9,441,500
Williamsburg	607231	Reconstruction of High Street and Mountain Street	0	18.0	\$3,600,000
Williamsburg	608787	CONSTRUCTION OF THE "MILL RIVER GREENWAY" SHARED USE PATH	0	29.0	\$14,400,000
Worthington	606912	Route 143 Reconstruction and Related Work	75	41.5	\$16,300,000
		Total Estimated project Cost (69 Projects)			\$355,597,454

Table 15: Projects Awaiting Design and Funds (Appendix Z) (Cont.) High Priority Project Listing (HPP)

Project Description	City/Town	Project ID	Funding	Fed. Funds	Fed. Funds State Funds	Total	Notes
Route 20 Access Improvements on Court Street & Western Avenue This reconstruction project on city-owned streets begins at Court Street at the intersection of Mill and High Street, and runs 0.2 miles westerly to Western Avenue, then westerly 2.25 miles to the intersection of Bates Road. The project will include traffic signal installation at Lloyd's Hill and an upgrade at Mill and High Streets	Westfield	603449	HPP-4287	\$2,002,950	\$500,738	\$2,503,688	
Route 32 Ware Road Reconstruction (\$22,854,850)	Palmer	601504	HPP-4287	\$2,303,744	\$575,936	\$2,879,680	
Design and construction of Southwick and Westfield Rail Trail	Southwick/Westfield	602844; 604443; 603783	HPP-1656	\$1,857,506	\$464,377	\$46,779	#602844 was advertised on 9/30/06; #604443 was \$46,779 advertised on 8/8/09
*Construct Access roads to Hospital Hill (\$1,652,818)	Northampton	604451	HPP-158	\$302,865	\$75,716	\$378,581	#604451 was advertised \$378,581 on 9/1/2007
*State St. Corridor Redevelopment Project (\$18,052,897)	Springfield	604447	HPP-217	\$899,056	\$224,764	\$1,123,820	#60447 was advertised \$1,123,820 on 9/22/07
*Design and construct 1.5 mile Red Stone Rail Trail(\$1,112,074) East Longmeadow	East Longmeadow	602338	HPP-578	\$224,764	\$56,191	\$280,955	#602338 was advertised \$280,955 on 12/6/2008
*Intersection improvements Memorial Park II - Roosevelt Ave. (\$2,310,853)	Springfield	604822	HPP-836	\$149,843	\$37,461	\$187,304	#604822 was advertised \$187,304 on 9/8/2007
Design north and southbound ramps on I-91 at Exit 19 (\$15,000,000)	Northampton	604597	HPP-847	\$224,764	\$56,191	\$280,955	
Upgrade Route 9 - Calvin Coolidge bridge (1998) (\$31,840,515)	Hadley	124913	HPP - 862	\$83,828	\$20,957	\$104,785	#124913 was advertised \$104,785 on 9/30/2000
Total Project Cost				\$8,049,320	\$2,012,330	\$10,061,650	
Earmarks located in Appendix Z w III remain un-oprogrammed until full project funding is available							

funds become available projects from this list could be added if the selected project would be ready for advertisement in that program year Projects list in appendix Z are shown for informational purposes and are not programmed in the TIP. If additional

# V. Transit Project Listing for FFY 2019 - 2023

The following is a complete listing of programmed transit projects for FFY 2019 - 2023

Table 16: FFY 2019 Transit Project Information

5307									
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006918	PVTA	119302	Purchase Bus Shelters, benches, trash receptacles,etc.		\$100,000	\$25,000	\$0	\$0	\$125,000
RTD0006919	PVTA	119308	Purchase & Replace signage and lighting		\$12,000	\$3,000	\$0	\$0	\$15,000
RTD0006920	PVTA	114220	ACQUIRE - MISC SUPPORT EQUIPMENT		\$8,000	\$2,000	\$0	\$0	\$10,000
RTD0006921	PVTA	442400	Transportation Planning		\$188,000	\$47,000	\$0	\$0	\$235,000
RTD0006922	PVTA	117C00	ADA Service subsidy		\$1,250,014	\$312,504	\$0	\$0	\$1,562,518
RTD0006923	PVTA	117A00	Preventive Maintenance		\$5,261,986	\$1,315,496	\$0	\$0	\$6,577,482
RTD0006933	PVTA	116220	Information Technology Systems		\$1,417,799	\$354,450	\$0	\$0	\$1,772,249
RTD0006956	PVTA	114302	Cottage Street Design and Construction Administration, Year 3		\$2,000,000	\$0	\$500,000	\$0	\$2,000,000
RTD0007283	PVTA	111201	Buy Replacement 40' Diesel Bus (4)		\$1,257,787	\$445,296	\$0	\$0	\$2,226,480
RTD0006917	PVTA	114402	REHAB/RENOVATE - Environmental Compliance		\$60,000	\$90,000	\$0	\$0	\$150,000
RTD0006952	PVTA	114302	Retrofit SATCO facility to paratransit		\$251,912	\$398,088	\$0	\$0	\$650,000
RTD0007282	PVTA	111202	Buy Replacement 35" Bus (4)		\$1,763,176	\$440,794	\$0	\$0	\$2,203,970
					\$13,570,674	\$3,433,628	\$500,000	\$0	\$17,527,699
5339									
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006949	PVTA	111215	Purchase Replacement Vans (27)		\$326,510	\$1,510,110	\$0	\$0	\$1,836,620
					\$326,510	\$1,510,110	\$0	\$0	\$1,836,620
Other NonFe	deral								
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006916	PVTA	114406	Purchase & Replace Shop Equipment		\$0	\$300,000	\$0	\$0	\$300,000
deral Aid Regiona	al Project List	ing (Transit)	r						

Table 16: FFY 2019 Transit Project Information (Continued)

RTD0006931	PVTA	114211	Purchase & Replace support vehicles (2)	\$0	\$75,000	\$0	\$0	\$75,000
RTD0006932	PVTA	114211	ACQUIRE - SUPPORT VEHICLES (4)	\$0	\$120,000	\$0	\$0	\$120,000
RTD0006955	PVTA	114302	Cottage Street Construction, Year 3	\$0	\$9,824,862	\$0	\$0	\$9,824,862
RTD0007287	PVTA	114306	UMTS rehab - Reinstall exhaust fans over maintenance bays	\$0	\$15,000	\$0	\$0	\$15,000
				\$0	\$10,334,862	\$0	\$0	\$10,334,862
				13,897,184	15,278,600	500,000	0	29,699,181

**Table 17: FFY 2020 Transit Project Information** 

			7						
5307									
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Tota
RTD0006924	PVTA	119202	Purchase Bus Shelters, benches, trash receptacles,etc.	2019 - \$77,424	\$77,424	\$19,356	\$0	\$0	\$96,780
RTD0006925	PVTA	119208	Purchases signage and lighting	2019 - \$20,000	\$20,000	\$5,000	\$0	\$0	\$25,000
RTD0006926	PVTA	119206	Purchase bicycle Equipment for shelters and buses	2019 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
RTD0006927	PVTA	114402	Environmental Compliance	2019 - \$60,000	\$60,000	\$15,000	\$0	\$0	\$75,000
RTD0006928	PVTA	442301	Planning Services - Long Term System	2019 - \$192,000	\$192,000	\$48,000	\$0	\$0	\$240,000
RTD0006929	PVTA	117C00	ADA Service subsidy	2019 - \$1,287,796	\$1,287,796	\$321,949	\$0	\$0	\$1,609,745
RTD0006930	PVTA	117A00	Preventive Maintenance	2019 - \$5,224,204	\$5,224,204	\$1,306,051	\$0	\$0	\$6,530,255
RTD0006934	PVTA	111201	Buy Replacement 40' Diesel Bus (12)	2019 - \$1,918,610	\$1,918,610	\$2,063,947	\$0	\$0	\$6,879,823
RTD0006953	PVTA	114220	Information Technology Systems	2019 - \$1,729,634	\$1,729,634	\$432,409	\$0	\$0	\$2,162,043
					\$10,515,268	\$4,213,112	\$0	\$0	\$17,625,646
5339									
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006101	PVTA	111202	Buy Replacement 35" Bus (13)	2019 - \$2,615,863; 2019 - \$885,729	\$885,729	\$1,327,608	\$0	\$0	\$7,377,789
					\$885,729	\$1,327,608	\$0	\$0	\$7,377,789
Other NonFe	ederal								
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006935	PVTA	114411	Replace support vehicle (2)		\$0	\$150,000	\$0	\$0	\$150,000
RTD0006936	PVTA	114406	Purchase & Replace Shop Equipment		\$0	\$110,000	\$0	\$0	\$110,000
RTD0006954	PVTA	114402	Convert SATCO Maintenenance Facility to Paratransit Operations, Year		\$0	\$1,900,000	\$0	\$0	\$1,900,000
RTD0007289	PVTA	114211	Replacement supervisory vehicles (2)		\$0	\$50,000	\$0	\$0	\$50,000

**Table 17: FFY 2020 Transit Project Information (Continued)** 

RTD0005869	PVTA	114403	Rehab Northampton Maint Facility, Year 1	\$0	\$50,000	\$0	\$0	\$50,000
RTD0006097	PVTA	114402	Bus Wash System Replacement -Northampton Maintenance Facility	\$0	\$90,000	\$0	\$0	\$90,000
				\$0	\$2,350,000	\$0	\$0	\$2,350,000
				11,400,997	7,890,720	0	0	27,353,435

Table 18: FFY 2021 Transit Project Information

5307									
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Tota
RTD0006942	PVTA	119402	Bus Shelters, Benches, Trash Recepticles	2020 - \$82,969	\$82,969	\$20,742	\$0	\$0	\$103,711
RTD0006943	PVTA	119408	Bus Stop Signage and Lighting	2020 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
RTD0006944	PVTA	119406	Bicyle access equipment for buses and shelters	2020 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
RTD0006945	PVTA	116202	Information Technology Systems	2020 - \$2,338,688	\$2,338,688	\$584,672	\$0	\$0	\$2,923,360
RTD0006946	PVTA	440000	PLANNING	2020 - \$196,000	\$196,000	\$49,000	\$0	\$0	\$245,000
RTD0006947	PVTA	300900	ADA OPERATING ASSISTANCE	2020 - \$1,307,113	\$1,307,113	\$326,778	\$0	\$0	\$1,633,891
RTD0006948	PVTA	117A00	PREVENTIVE MAINTENANCE	2020 - \$5,380,930	\$5,380,930	\$1,345,233	\$0	\$0	\$6,726,163
RTD0007291	PVTA	111201	Buy Replacement 35-FT Buses (16)	2020 - \$2,285,222	\$2,285,222	\$4,676,383	\$0	\$0	\$9,352,766
				-	\$11,612,522	\$7,008,208	\$0	\$0	\$21,011,891
5339									
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006080	PVTA	111202	Buy Replacement 40-FT Buses (17)	2020 - \$1,458,609; 2020 - \$885,729	\$885,729	\$5,019,404	\$0	\$0	\$10,038,808
				-	\$885,729	\$5,019,404	\$0	\$0	\$10,038,808
Other NonFe	deral								
Other NonFe Project Number	ederal Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
Project Number			Project Description  Replace Supervisory Vehicles (2)	Carry Over			TDC \$0		Total \$50,000
Project Number RTD0006939	Agency	Item	•	Carry Over	Funds	Funds		Funds	\$50,000
Project	Agency PVTA	Item 114411	Replace Supervisory Vehicles (2)	Carry Over	Funds \$0	Funds \$50,000	\$0	Funds \$0	
Project Number RTD0006939 RTD0006940	Agency PVTA PVTA	Item 114411 114406	Replace Supervisory Vehicles (2) Purchase/Replace Shop Equipment	Carry Over	Funds \$0 \$0	Funds \$50,000 \$110,000	\$0 \$0	Funds \$0 \$0	\$50,000 \$110,000

Table 18: FFY 2022 Transit Project Information

Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006958	PVTA	111202	Replace 35' Buses (10)	2021 - \$989,313	\$989,313	\$1,204,169	\$0	\$0	\$6,020,843
RTD0006964	PVTA	119402	Purchase Shelters and shelter accessories	2021 - \$82,969	\$82,969	\$20,742	\$0	\$0	\$103,711
RTD0006965	PVTA	119408	Signage & Lighting	2021 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
RTD0006966	PVTA	119406	Bike Access for shelters and Buses	2021 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
RTD0006967	PVTA	116202	Information Technology Systems	2021 - \$2,521,702	\$2,521,702	\$630,425	\$0	\$0	\$3,152,127
RTD0006968	PVTA	117A00	Preventive Maintenance	2021 - \$5,542,358	\$5,542,358	\$1,385,590	\$0	\$0	\$6,927,948
RTD0006969	PVTA	117C00	NON FIXED ROUTE ADA PARA SERV	2021 - \$1,307,113	\$1,307,113	\$326,778	\$0	\$0	\$1,633,891
RTD0006970	PVTA	442301	LONGTERM TRANS PLAN - SYSTEM LEVEL	2021 - \$196,000	\$196,000	\$49,000	\$0	\$0	\$245,000
RTD0006957	PVTA	111201	Purchase 40' Replacement Buses (15)	2021 - \$2,410,075; 2021 - \$888,729	\$2,410,075	\$1,824,701	\$0	\$0	\$9,123,505
				_	\$13,071,130	\$5,446,805	\$0	\$0	\$27,234,025
Other NonFe	ederal								
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0006960	PVTA	114211	Purchase replacement support vehicles (3)		\$0	\$148,000	\$0	\$0	\$148,000
RTD0006961	PVTA	114411	Replace Supervisory Vehicles (4)		\$0	\$25,000	\$0	\$0	\$25,000
RTD0006963	PVTA	114402	Environmental Compliance		\$0	\$75,000	\$0	\$0	\$75,000
RTD0006971	PVTA	111215	Purchase Replacement Vans (24)		\$0	\$1,783,933	\$0	\$0	\$1,783,933
				-	\$0	\$2,031,933	\$0	\$0	\$2,031,933
					13,071,130	7,478,738	0	0	29,265,958

Table 19: FFY 2023 Transit Project Information

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Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0007293	PVTA	111201	Purchase 40' Replacement Buses (17)	2022 - \$1,530,820; 2022 - \$902,060	\$1,530,820	\$5,325,086	\$0	\$0	\$10,650,172
RTD0007297	PVTA	119302	Purchase Bus Shelters, benches, trash receptacles, etc.	2022 - \$84,538	\$84,538	\$21,134	\$0	\$0	\$105,672
RTD0007299	PVTA	119306	Purchase and replace bicycle equipment for shelters and buses	2022 - \$5,600	\$5,600	\$1,400	\$0	\$0	\$7,000
RTD0007298	PVTA	119308	Purchase & Replace signage and lighting	2022 - \$16,000	\$16,000	\$4,000	\$0	\$0	\$20,000
RTD0007300	PVTA	116220	Information Technology Systems	2022 - \$1,914,305	\$1,914,305	\$478,576	\$0	\$0	\$2,392,881
RTD0007305	PVTA	442400	Transporation planning	2022 - \$200,000	\$200,000	\$50,000	\$0	\$0	\$250,000
RTD0007306	PVTA	117C00	ADA service subsidy	2022 - \$1,326,720	\$1,326,720	\$331,680	\$0	\$0	\$1,658,400
RTD0007307	PVTA	117A00	Preventive Maintenance	2022 - \$5,708,629	\$5,708,629	\$1,427,157	\$0	\$0	\$7,135,786
RTD0007295	PVTA	111202	Purchase 35' Replacement Buses (8)	2022 - \$2,480,587	\$2,480,587	\$2,480,587	\$0	\$0	\$4,961,174
					\$13,267,199	\$10,119,620	\$0	\$0	\$27,181,085
Other NonFe	ederal								
Project Number	Agency	Line Item	Project Description	Carry Over	Federal Funds	State Funds	TDC	Local Funds	Total
RTD0007296	PVTA	111402	REHAB/RENOVATE - Environmental Compliance		\$0	\$75,000	\$0	\$0	\$75,000
RTD0007301	PVTA	114402	Northampton Hydraulic Lift Project		\$0	\$750,000	\$0	\$0	\$750,000
RTD0007302	PVTA	114400	Renovate Holyoke ITC Canopy & Pavement		\$0	\$500,000	\$0	\$0	\$500,000
RTD0007342	PVTA	111215	Purchase Replacement Vans (9)		\$0	\$689,044	\$0	\$0	\$689,044
					\$0	\$2,014,044	\$0	\$0	\$2,014,044
					13,267,199	12,133,664	0	0	29,195,129

# VI. STATEWIDE FEDERAL AID PROJECT LISTING

The MassDOT provided each planning agency a listing of statewide items anticipated for FFY 2019 to 2023. These items are to be funded separately from the regional TIP program. This information is provided in the following Tables.

# **Table 21 Statewide Federal Aid Project Listing**

# 2019

► Section 2A / State	Prioritized Police	aility Projecte												
		ninty Projects												
► Bridge Program / I	nspections		1	7	1		1			·		<b>,</b>		1
	Bridge Program		Pioneer Valley		Bridge Inspection			\$	-	\$	-	\$	-	
***************************************		L			Bridge Prog	ram / Inspec	tions subtotal ►	\$	-	\$	-	\$	-	■ Funding Split Varies by Funding Source
5 D. da Do	200 0							1		1				
► Bridge Program / 0	Jπ-System		I	1	BROOKFIELD- EAST BROOKFIELD- BRIDGE		1			·		·		1
	Bridge Program	608190	Central Mass	BROOKFIELD	REPLACEMENT. B-26-006 = E-02-001. SOUTH	3	STP-BR-OFF	s	1,857,041	\$	1,485,633	\$ 3	71.408	
	3 3				POND ROAD OVER SOUTH POND INLET			Ľ	, , .	ľ	,		,	
				NEW	NEW MARLBOROUGH- BRIDGE REPLACEMENT,									
	Bridge Program	608243	Berkshire Region	MARLBOROUG	N-08-010, UMPACHENE FALLS OVER	1	STP-BR-OFF	\$	1,602,022	\$	1,281,618	\$ 3	320,404	
				Н	KONKAPOT RIVER PITTSFIELD- BRIDGE REPLACEMENT, P-10-049,			-		-		,		
	Bridge Program	603255	Berkshire Region	PITTSFIELD	LAKEWAY DRIVE OVER ONOTA LAKE	1	STP-BR-OFF	\$	1,511,864	\$	1,209,491	\$ 3	302,373	
					SHEFFIELD- BRIDGE REPLACEMENT, S-10-019,								***************************************	
	Bridge Program	608263	Berkshire Region	SHEFFIELD	BERKSHIRE SCHOOL ROAD OVER SCHENOB	1	STP-BR-OFF	\$	3,479,307	\$	2,783,446	\$ 6	95,861	
					BROOK MIDDLEFIELD- BRIDGE SUPERSTRUCTURE			-						
	Bridge Program	608249	Pioneer Valley	MIDDLEFIELD	REPLACEMENT, M-19-010, CHESTER ROAD	1	STP-BR-OFF	\$	970,807	¢	776,645	\$ 1	94,161	
	Dridge Frogram	000243	l'ioneer valley	IVIIDDEET IEED	OVER SMART BROOK		OII BICOII	ľ	370,007	*	770,040	Ψ	54,101	
					SHARON- BRIDGE REPLACEMENT, S-09-003									
	Bridge Program	608079	Boston Region	SHARON	(40N), MASKWONICUT STREET OVER	5	STP-BR-OFF	\$	2,683,087	\$	2,146,469	\$ 5	36,617	
					AMTRAK/MBTA ATHOL- BRIDGE REPLACEMENT, A-15-005,					ļ		,		
	Bridge Program	608260	Montachusett	ATHOL	WASHINGTON AVE OVER ATHOL POND OUTLET	2	STP-BR-OFF	\$	2,485,419	\$	1,988,335	\$ 4	97,084	
	D.: J D	000055	D4 Di	отом	STOW- BRIDGE REPLACEMENT, S-29-011, BOX		OTD DD OFF	s	0.040.000		0 000 770	<u> </u>		
	Bridge Program	608255	Boston Region	STOW	MILL ROAD OVER ELIZABETH BROOK	3	STP-BR-OFF	<b>3</b>	3,612,223	3	2,889,779	\$ /	22,445	
				TOUR 105115	TOWNSEND- BRIDGE REPLACEMENT, T-07-		070 00 055							
	Bridge Program	608259	Montachusett	TOWNSEND	013, WEST MEADOW ROAD OVER LOCKE BROOK	3	STP-BR-OFF	\$	991,896	\$	793,517	\$ 1	98,379	
								-		-				
	Bridge Program	607534	Northern	TEWKSBURY	TEWKSBURY- BRIDGE PRESERVATION, T-03-	4	STP-BR-OFF	\$	2,160,000	\$	1,728,000	\$ 4	32,000	
			Middlesex		003, MILL STREET OVER SHAWSHEEN RIVER									
AMENDMENT:Move	Bridge Program	607127	Montachusett	HUBBARDSTO	HUBBARDSTON- BRIDGE REPLACEMENT, H-24-	4	STP-BR-OFF	\$	3,365,860	\$	2,692,688	\$ 6	73,172	
Project - (FROM 2018)	0 0			N	009, EVERGREEN ROAD OVER MASON BROOK PITTSFIELD- BRIDGE REPLACEMENT, P-10-042,			-		-				
	Bridge Program	608523	Berkshire Region	PITTSFIELD	NEW ROAD OVER WEST BRANCH OF THE	1	STP-BR-OFF	\$	1,587,096	\$	1.269.677	\$ 3	17,419	
	3 3				HOUSATONIC RIVER			Ľ	, , , , , , , , , , , , , , , , , , , ,	ľ			, -	
					Bridge Prog	gram / Off-Sy	stem subtotal ▶	\$ 2	26,306,621	\$ 2	21,045,297	\$ 5,20	31,324	◀ 80% Federal + 20% Non-Federal
► Bridge Program / 0	On-System (NHS)									1				
	on Cystem (NIS)				LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18-		1					7		
AMENDMENT:Move	Bridge Program	604952	Boston Region	LYNN	016=S-05-008, ROUTE 107 OVER THE SAUGUS	4	NHPP-On	\$	14,894,228	\$	11,915,382	\$ 2,9	78,846	AC Year 1 of 5, Total Cost \$74,471,140
Project - (FROM 2018)					RIVER (AKA - BELDEN G. BLY BRIDGE)									
					BOSTON- BRIDGE REPLACEMENT, B-16-016,									10 V0 -10 T-1-1 01 0470 040 400
	Bridge Program	604173	Boston Region	BOSTON	NORTH WASHINGTON STREET OVER THE BOSTON INNER HARBOR	6	NHPP-On	Ъ	21,000,000	3	16,800,000	\$ 4,2	00,000	AC Year 3 of 6, Total Cost \$176,318,433
***************************************	B				HAVERHILL- BRIDGE REPLACEMENT, H-12-039,			-	00 705 15					10 V0 -10 T-1-10
	Bridge Program	605306	Merrimack Valley	HAVERHILL	I-495 (NB & SB) OVER MERRIMACK RIVER	4	NHPP-On	\$	23,703,426	\$ '	18,962,741	\$ 4,7	40,685	AC Year 2 of 6, Total Cost \$118,786,388
	Bridge Program	605287	Boston Region	CHELSEA	CHELSEA- ROUTE 1 VIADUCT REHABILITATION	6	NHPP-On	s	71 677 130	\$ 4	57 341 704	\$ 143	35 426	AC Year 2 of 4, Total Cost \$213,972,689
	S.logo i logialii	000207	Doctor region	I LLOEN	(SB/NB) ON C-09-007 & C-09-011	-								
					Bridge Program / 0	On-System (	NHS) subtotal ▶	\$ 13	31,274,784	\$ 10	5,019,827	\$ 26,2	54,957	■ Funding Split Varies by Funding Source
											1			

	n-System (Non-N	IHS)											
	Bridge Program	1	Montachusett	ATHOL	ATHOL- BRIDGE REPLACEMENT, A-15-008, CRESCENT STREET OVER MILLERS RIVER	2	NHPP-Off	\$ 7	,860,160		L	1,572,032	
					Bridge Program / On-S	ystem (Non-l	NHS) subtotal ▶	\$ 7,	860,160	\$ 6,288,128	\$	1,572,032	■ 80% Federal + 20% Non-Federal
Bridge Program / Sy	ystematic Mainte	enance											
	Bridge Program	TBA	Pioneer Valley	Multiple	DISTRICT 1- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS (2019)	1	NHPP-Off	\$	522,200	\$ 417,760	\$	104,440	
	Bridge Program	608251	Pioneer Valley	Multiple	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS (2019)	2	NHPP-Off	\$ 1	,989,000	\$ 1,591,200	\$	397,800	
ADJUSTMENT:Decrease Cost	Bridge Program	607908	Central Mass	HOLDEN	HOLDEN- BRIDGE MAINTENANCE OF H-18-028 & 029, I-190 OVER RIVER STREET & QUINAPOXET RIVER	3	NHPP-On	\$	466,076	\$ 372,861	\$	93,215	
	Bridge Program	608257	Northern Middlesex	LOWELL	LOWELL- DECK REPLACEMENTS, L-15-068 (2H5) AND (2HG), LOWELL CONNECTOR OVER INDUSTRIAL AVENUE EAST	4	NHPP-On	\$ 4	,007,143	\$ 3,205,715	\$	801,429	
	Bridge Program	608234	Boston Region	RANDOLPH	RANDOLPH- BRIDGE PRESERVATION OF 2 BRIDGES: R-01-005 & R-01-007	6	NHPP-On	\$ 4	,984,738	\$ 3,987,791	\$	996,948	
		L		·····		natic Mainten	ance subtotal ▶	\$ 11,	,969,158	\$ 9,575,326	\$	2,393,832	■ Funding Split Varies by Funding Source
►Interstate Pavement	<u> </u>							1	8		1	1	
interstate i avenieni	Interstate Pavement	607560	Pioneer Valley	Multiple	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE AND RELATED WORK ON I-391	2	NHPP	\$ 11	,309,875	\$ 10,178,888	\$	1,130,988	
	Interstate Pavement	607560	Pioneer Valley	Multiple	CHICOPEE- HOLYOKE- INTERSTATE MAINTENANCE & RELATED WORK ON I-391	2	NHPP	\$	416,000	\$ 374,400	\$	41,600	
	11 aveillent		1			terstate Pave	ment subtotal ▶	\$ 11.	725,875	\$ 10,553,288	\$	1,172,588	■ 90% Federal + 10% Non-Federal
Non-Interstate Pave	ment												
	Non-Interstate Pavement	607474	Pioneer Valley	Multiple	GRANBY- SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROTUE 202	2	NHPP	\$ 5	,752,500	\$ 4,602,000	\$	1,150,500	
					Non-Int	erstate Pave	ment subtotal ▶	\$ 5,	752,500	\$ 4,602,000	\$	1,150,500	■ 80% Federal + 20% Non-Federal
<ul><li>Roadway Improven</li></ul>	nents												
► Roadway Improven	nents Roadway Improvements		Pioneer Valley		Roadway Improvements			\$		\$ -	\$	-	
► Roadway Improven	Roadway		Pioneer Valley			vay Improvem	nents subtotal ▶	Ψ	- -			-	■ 80% Federal + 20% Non-Federal
► Roadway Improven  Safety Improvemen	Roadway Improvements		Pioneer Valley		Roadv	vay Improven	nents subtotal ▶	Ψ				-	■ 80% Federal + 20% Non-Federal
	Roadway Improvements	608571	Pioneer Valley  Cape Cod	Multiple	Roadv  BOURNE TO FALMOUTH- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE	vay Improvem	nents subtotal ▶	Ψ		\$ -	\$	43,335	■ 80% Federal + 20% Non-Federal
	Roadway Improvements		7	Multiple Chicopee	Roadv  BOURNE TO FALMOUTH- GUIDE AND TRAFFIC	1	T	\$	433,353	\$ -	\$		◀ 80% Federal + 20% Non-Federal
	Roadway Improvements  Its Safety Improvements Safety	607736	Cape Cod		Roadv  BOURNE TO FALMOUTH- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER	5	HSIP	\$ \$ 6	433,353	\$ -	\$	43,335	■ 80% Federal + 20% Non-Federal
	Roadway Improvements  Its Safety Improvements Safety Improvements Safety Safety	607736 608582	Cape Cod Pioneer Valley	Chicopee	Roadw  BOURNE TO FALMOUTH- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET STATEWIDE-VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED IN CONSULTATION WITH FHWA IN 2019 CHELSEA TO DANVERS- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1	5	HSIP	\$ \$ \$ 6	433,353	\$ 390,018 \$ 5,401,248	\$ \$ \$	43,335 600,139	■ 80% Federal + 20% Non-Federal
	Roadway Improvements  Safety Improvements  Safety Improvements  Safety Improvements  Safety Improvements  Safety	607736 608582 608206	Cape Cod Pioneer Valley Statewide	Chicopee Multiple	Roady  BOURNE TO FALMOUTH- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET STATEWIDE-VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED IN CONSULTATION WITH FHIWA IN 2019 CHELSEA TO DANVERS- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1 READING TO LYNNFIELD- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF 1-95 (SR 128)	5 2 Multiple	HSIP HSIP	\$ \$ 6 \$ 7	433,353 ,001,387 ,103,182 ,195,084	\$ 390,018 \$ 5,401,248 \$ 5,492,864	\$ \$ \$ \$	43,335 600,139 610,318	■ 80% Federal + 20% Non-Federal
	Roadway Improvements  Safety Improvements	608205	Cape Cod Pioneer Valley Statewide Boston Region	Chicopee  Multiple  Multiple	Roadv  BOURNE TO FALMOUTH- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF ROUTE CHICOPEE- SIGNAL & INTERSECTION IMPROVEMENTS AT 13 INTERSECTIONS ALONG ROUTE 33 (MEMORIAL DRIVE), FROM FULLER ROAD TO ABBEY STREET STATEWIDE-VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED IN CONSULTATION WITH FHWA IN 2019 CHELSEA TO DANVERS- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US ROUTE 1 READING TO LYNNFIELD- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF 1-95	5 2 Multiple 4	HSIP HSIP HSIP NHPP	\$ \$ 6. \$ 7. \$ 4.	- 433,353 ,001,387 ,103,182 ,195,084 ,513,288	\$ 390,018 \$ 5,401,248 \$ 5,492,864 \$ 6,475,576	\$ \$ \$ \$ \$	43,335 600,139 610,318 719,508	■ 80% Federal + 20% Non-Federal

/1/														
	Prioritized Moder	nization Proje	ects											
ADA Retrofits						·	·							
	ADA Retrofits		Pioneer Valley		ADA Retrofits			\$	-	\$	-	\$	-	
			L			ADA Ret	.i trofits subtotal ▶	S	-	\$	-	\$	-	■ 80% Federal + 20% Non-Federal
ntersection Impro	vements							-		-	-	-		1
					WORCESTER- SIGNAL & INTERSECTION			T		T				
					IMPROVEMENTS @ HOLDEN STREET,									
	Intersection	603251	Central Mass	Worcester	DRUMMOND AVENUE & SHORE DRIVE,	3	CMAQ	\$	2,005,070	s	1.804.563	\$	200,507	
	Improvements				INCLUDES CULVERT EXTENSION OF W-44-122,	1		1	_,,,,,,,,,	1	.,,	*	,	
					SHORE DRIVE OVER (UNNAMED) STREAM									
	Intersection				BOSTON- INTERSECTION IMPROVEMENTS AT			+-						
	Improvements	608755	Boston Region	Boston	MORTON STREET AND HARVARD STREET	6	HSIP	\$	1,500,000	\$	1,350,000	\$	150,000	
					OTATEMER VARIOUS SAFETY OTRATESIES TO									
	Intersection	600500	Statewide	Multiple	STATEWIDE-VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED IN	MULTIPLE	HSIP	\$	8,325,742		7 402 460	e e	832,574	
	Improvements	000302	Statewide	ividitiple	CONSULTATION WITH FHWA IN 2019	MOLTIFLE	HOIF	Φ	0,323,742	٩	7,493,100	Ф	032,374	
					CONSOLIATION WITHTHWAIN 2019									
					WORCESTER- SIGNAL & INTERSECTION			1	••••••					
	Intersection	607757	Central Mass	Worcester	IMPROVEMENTS ON ROUTE SR 122A	3	NFP	\$	1,100,000	9	990,000	¢	110,000	
	Improvements	007707	Ochildi Mass	Wordester	(PROVIDENCE STREET) AT MILLBURY STREET		1	Ψ	1,100,000	"	330,000	Ψ	110,000	
				-	& MCKEON ROAD PITTSFIELD- INTERSECTION & SIGNAL			┼				,		
	Intersection	607760	Berkshire	Pittsfield	IMPROVEMENTS AT 9 LOCATIONS ALONG SR 8	1	HSIP	\$	3,000,000	6	2,700,000	¢	300,000	
	Improvements	007700	Derkstille	rittsiieiu	& SR 9		TIOI	Ψ	3,000,000	۳	2,700,000	Ψ	300,000	
	Intersection	000000	Ctatamida	NA deinte	WELLESLEYTO WORCESTER - CONNECTED	NA JEST I	CMAC	•	4 000 000	-	2 000 000	r.	400.000	
	Improvements	609003	Statewide	Multiple	VEHICLE TIMING AND COMMUNICATION	Multiple	CMAQ	\$	4,000,000	\$	3,600,000	\$	400,000	
	Intersection	607249	Boston Region	Sudbury	SUDBURY-INTERSECTION IMPROVEMENTS @	3	HSIP	\$	2,152,521	s	1,937,269	s	215,252	
	Improvements	007210	Dooron region	Journey	ROUTE 20 & LANDHAM ROAD	<u> </u>		<u> Li</u>		<u></u>			210,202	4 E. edies Celit Vesies In Esselies Ce
					intersect	uon improven	nents subtotal >	Þ	-	\$	-	\$		■ Funding Split Varies by Funding So
Intelligent Transp			1	1		T	1	_		,		,		
	Intelligent Transportation		Pioneer Valley		Intelligent Transportation Systems			\$	_	s	_	\$	_	
	Systems		r loneer valley		intelligent transportation systems			Ψ		۳	-	Ψ		
	Cyclonic				Intelligent Trans	sportation Sy	stem subtotal >	\$	-	\$	-	\$	-	■ 80% Federal + 20% Non-Federal
Roadway Reconst	ruction							-		-				
	Roadway	609700	Pioneer Valley	Holyoke	HOLYOKE- IMPROVEMENTS AT KELLY	2	TAP	\$	1,264,935	\$	1,011,948	•	252,987	
	Reconstruction	000790	Florieer valley	потуске	COMMUNITY SCHOOL (SRTS)		IAF	Φ	1,204,933	٩	1,011,946	Ф	202,901	
					NORTHAMPTON- ROUNDABOUT									
	Roadway	606555	Pioneer Valley	Northampton	CONSTRUCTION AT INTERSECTION ROUTES	2	CMAQ	\$	4,109,480	\$	3,287,584	\$	821,896	
	Reconstruction				5/10 (NORTH KING STREET) & HATFIELD STREET									
			<u> </u>			ay Reconstru	』 iction subtotal ▶	\$	5,374,415	\$ 4	4,299,532	\$ 1	,074,883	■ Funding Split Varies by Funding So
Section 2C / State	Prioritized Expan	sion Projects												
Bicycles and Pede		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,												·
,000 and Fed			T	T	WESTELD COLUMNIC COSTS	T	T	Т						
					WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL									
	Bicycles and	603783	Diopoor Valley	Westfield	CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO	2	CMAQ	\$	6 532 905	•	5 226 216	e .	1 306 570	Construction / PSAC score 39.5
	Pedestrians	003/83	Pioneer Valley	vvestileid	COWLES COURT, INCLUDES W-25,014, W-25-		CIVIAQ	ф	0,032,095	Þ	0,220,316	Ф	1,300,579	Constitution / FOAC Store 39.5
					015, W-25-016, W-25-017, W-25-018 & W-25-019									
			<u> </u>			e and Dedect	trians subtotal ▶	-	6 532 805	¢ ,	5 226 316	<b>©</b> 1	306 570	■ 80% Federal + 20% Non-Federal
Capacity					ысусіе	o and i edest	mana aubioidi 🕨	ĮΨ	0,002,000	ΙΨ .	J,220,J10	ا ب	,000,019	3 00 % Federal - 20 % Non-Federal
vapacity			B		0			T.						
	Capacity		Pioneer Valley		Capacity			\$	-	\$		\$	-	
						Can	acity subtotal >	\$	-	\$	-	\$	-	■ Funding Split Varies by Funding So

3 / Planning / Adjustments / Pas								
g / Adjustments / Pass-throughs								
	Pioneer Valley	ABP GANS Repayment	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	ABP GANS Repayment	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	Award adjustments, change orders, etc.	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	Metropolitan Planning	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	Metropolitan Planning	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	State Planning and Research Work Program I, (SPR I), Planning	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	State Planning and Research Work Program II, (SPR II), Research	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	Railroad Crossings	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	Railroad Crossings	Multiple	\$	-	\$ -	\$ -	
	Pioneer Valley	Recreational Trails Oth	Multiple er Statewide Items sub	sototal ► \$	~~~~~~~	\$ - \$ -	\$ - \$ -	■ Funding Split Varies by Funding Soul
4 / Non-Federally Aided Projects				\$ ototal ▶ \$	~~~~~~~			■ Funding Split Varies by Funding Sou
4 / Non-Federally Aided Projects				\$ ototal ▶ \$	~~~~~~~			◀ Funding Split Varies by Funding Sou
				\$ stototal ► \$	~~~~~~~			▼ Funding Split Varies by Funding Sou
derally Aided Projects	s	Oth		\$	~~~~~~~		\$ - \$ -	✓ Funding Split Varies by Funding Sou
derally Aided Projects  Non Federal Aid	s	Oth	er Statewide Items sut	\$ btotal► \$	-		\$ - \$ - \$ -	
derally Aided Projects	s	Oth	er Statewide Items sut	\$ btotal► \$	-	\$ -	\$ - \$ - \$ -	
derally Aided Projects  Non Federal Aid	s	Oth	er Statewide Items sut	\$ btotal► \$	- - - -xtion 1 -	S -	\$ - \$ - Total of All Projects ▼ \$ 242,351,966	■100% Non-Federal
derally Aided Projects  Non Federal Aid	s	Oth	er Statewide Items sut	\$ btotal▶ \$ TIP Sec 3: ▼	- - - stion 1 -	TIP Section 4:	\$ - \$ - Total of All Projects ▼ \$ 242,351,966	■100% Non-Federal

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Aw arding Authority. For all projects contained in the TIP, the Commonw ealth is the Aw arding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website: http://www.massdot.state.ma.us/Highway/flaggers/main.aspx

Bridge Program / Ins	spections	·		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			•				
	Bridge Program		Pioneer Valley	Multiple	Bridge Inspection	Multiple	NHPP	\$ 11,933,333	\$ 9,546,667	\$ 2,386,667	
	Bridge Program		Pioneer Valley	Multiple	Bridge Inspection	Multiple	STP-BR-OFF	\$ 5,966,667	\$ 4,773,333	\$ 1,193,333	
					Bridge Prog	ram / Inspec	tions subtotal <b>&gt;</b>	\$ 17,900,000	\$ 14,320,000	\$ 3,580,000	■ Funding Split Varies by Funding Source
ridge Program / Of	f-System										1
	Bridge Program	608642	Berkshire Region	NEW MARLBOROUG H	NEW MARLBOROUGH- SUPERSTRUCURE REPLACEMENT, N-08-001, NORFOLK ROAD OVER UMPACHENE BROOK	1	STP-BR-OFF	\$ 5,461,456	\$ 4,369,165	\$ 1,092,291	
	Bridge Program	608643	Franklin Region	CHARLEMONT	CHARLEMONT- BRIDGE REPLACEMENT, C-05- 037, WEST OXBOW ROAD OVER WILDER BROOK	1	STP-BR-OFF	\$ 2,706,000	\$ 2,164,800	\$ 541,200	
	Bridge Program	608644	Franklin Region	CHARLEMONT	CHARLEMONT- BRIDGE REPLACEMENT, C-05- 008, TOWER ROAD OVER CHICKLEY RIVER	1	STP-BR-OFF	\$ 2,692,000	\$ 2,153,600	\$ 538,400	
	Bridge Program	608645	Berkshire Region	NEW MARLBOROUG	NEW MARLBOROUGH- BRIDGE REPLACEMENT, N-08-006, CAMPBELL FALLS ROAD OVER	1	STP-BR-OFF	\$ 3,286,528	\$ 2,629,222	\$ 657,306	
	Bridge Program	608646	Berkshire Region	TYRINGHAM	TYRINGHAM- BRIDGE REPLACEMENT, T-10-007, MONTEREY ROAD OVER HOP BROOK	1	STP-BR-OFF	\$ 1,727,040	\$ 1,381,632	\$ 345,408	
	Bridge Program	608631	Pioneer Valley	WESTHAMPTO N	WESTHAMPTON- BRIDGE REPLACEMENT, W-27- 005, KINGS HIGHWAY OVER N BRANCH MANHAN RIVER	2	STP-BR-OFF	\$ 3,072,000	\$ 2,457,600	\$ 614,400	
	Bridge Program	608635	Montachusett	SHIRLEY	SHIRLEY- BRIDGE REPLACEMENT, S-13-005, CARRYING LONGLEY ROAD OVER THE MULPUS BROOK	3	STP-BR-OFF	\$ 1,764,940	\$ 1,411,952	\$ 352,988	
	Bridge Program	608633	Central Mass	WEST BROOKFIELD	WEST BROOKFIELD- BRIDGE REPLACEMENT, W-19-009, FOSTER HILL ROAD OVER COYS BROOK	2	STP-BR-OFF	\$ 1,837,034	\$ 1,469,627	\$ 367,407	
	Bridge Program	608639	Montachusett	WESTMINSTER	WESTMINSTER- BRIDGE REPLACEMENT, W-28- 010, CARRYING WHITMANVILLE ROAD OVER THE WHITMAN RIVER	3	STP-BR-OFF	\$ 2,791,200	\$ 2,232,960	\$ 558,240	
	Bridge Program	608640	Central Mass	SUTTON	SUTTON- BRIDGE RECONSTRUCTION/REHABILITATION, S-33-004, CARRYING DEPOT STREET OVER THE BLACKSTONE RIVER	3	STP-BR-OFF	\$ 3,763,199	\$ 3,010,559	\$ 752,640	
NDMENT:Add Project	Bridge Program	ТВА	Berkshire Region	NEW MARLBOROUG H	NEW MARLBOROUGH- SUPERSTRUCURE REPLACEMENT, N-08-017, LAMBERTS CROSS ROAD OVER UMPACHENE RIVER	1	STP-BR-OFF	\$ 2,278,848	\$ 1,823,078	\$ 455,770	
NDMENT:Add Project	Bridge Program	ТВА	Berkshire Region	NEW MARLBOROUG H	NEW MARLBOROUGH- SUPERSTRUCURE REPLACEMENT, N-08-018, CANAAN- SPRINGFIELD ROAD OVER UMPACHENE RIVER	1	STP-BR-OFF	\$ 1,064,448	\$ 851,558	\$ 212,890	

	Bridge Program		Pioneer Valley							S	- [	\$	-
	Bridge Program		Boston Region	STOW	STOW- BRIDGE REPLACEMENT, S-29-001, (ST 62) GLEASONDALE ROAD OVER THE ASSABET RIVER	3	NHPP-On	\$	6,706,556	\$ 5,36	5,245		,311
	Bridge Program	400103	Pioneer Valley	WESTFIELD	WESTFIELD- BRIDGE REPLACEMENT, W-25- 006, ROUTE 10/202 (SOUTHWICK ROAD) OVER THE LITTLE RIVER	2	NHPP-On	\$	12,732,554	\$ 10,18	6,043	\$ 2,546	,511
MENDMENT:Move Project - (FROM 2018)	Bridge Program	606552	Pioneer Valley	NORTHAMPTO N	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD	2	NHPP-On	\$	11,378,353	\$ 9,10	2,682	\$ 2,275	,671 AC Year 1 of 5, Total Cost \$56,891,767
	Bridge Program	604173	Boston Region	BOSTON	BOSTON- BRIDGE REPLACEMENT, B-16-016, NORTH WASHINGTON STREET OVER THE BOSTON INNER HARBOR	6	NHPP-On	\$	20,000,000	\$ 16,00	0,000	\$ 4,000	,000 AC Year 4 of 6, Total Cost \$176,318,433
	Bridge Program	605306	Merrimack Valley	HAVERHILL	HAVERHILL- BRIDGE REPLACEMENT, H-12-039, I-495 (NB & SB) OVER MERRIMACK RIVER	4	NHPP-On	\$	19,797,731	\$ 15,83	8,185	\$ 3,959	,546 AC Year 3 of 6, Total Cost \$118,786,388
	Bridge Program	605287	Boston Region	CHELSEA	CHELSEA- ROUTE 1 VIADUCT REHABILITATION (SB/NB) ON C-09-007 & C-09-011	6	NHPP-On	\$	40,952,933	\$ 32,76	2,346	\$ 8,190	,587 AC Year 3 of 4, Total Cost \$213,972,689
	Bridge Program	604952	Boston Region	LYNN	LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18- 016=S-05-008, ROUTE 107 OVER THE SAUGUS RIVER (AKA - BELDEN G. BLY BRIDGE)	4	NHPP-On	\$	14,894,228	\$ 11,91	5,382	\$ 2,978	,846 AC Year 2 of 5, Total Cost \$74,471,140
					Bridge Program / 0	On-System (	(NHS) subtotal ▶	\$ 12	26,462,355	\$ 101,16	9,884	\$ 25,292	,471 Funding Split Varies by Funding Source
► Bridge Program / C	n-System (Non-N	HS)											
	Bridge Program	604189	Franklin Region		BERNARDSTON- BRIDGE REPLACEMENT, B-10- 004, U.S. ROUTE 5 (BRATTLEBORO ROAD) OVER SHATTUCK BROOK	2	NHPP-Off	\$	2,993,214	\$ 2,39	1,571	\$ 598	3,643
					Bridge Program / On-S	ystem (Non-	-NHS) subtotal ▶	\$	2,993,214	\$ 2,39	,571	\$ 598	,643 ◀ 80% Federal + 20% Non-Federal
► Bridge Program / S	ystematic Mainte	nance											
	Bridge Program	ТВА	Pioneer Valley	Multiple	DISTRICT 1- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS (2020)	1	NHPP-Off	\$	522,200	\$ 41	7,760	\$ 104	1,440
	Bridge Program	608550	Pioneer Valley	Multiple	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS (2020)	2	NHPP-Off	\$	1,428,571	\$ 1,14	2,857	\$ 28	5,714
ADJUSTMENT:Increase Cost	Bridge Program	608589	Central Mass	WORCESTER	WORCESTER- CLEAN AND PAINT STRUCTURAL STEEL ON W-44-082	3	NHPP-On	\$	2,154,029	\$ 1,72	3,223	\$ 430	0,806
ADJUSTMENT:Increase Cost	Bridge Program	608592	Pioneer Valley	Multiple	DISTRICT 5- SYSTEMATIC BRIDGE PRESERVATION ALONG THE I-95 CORRIDOR	5	NHPP-On		2,724,909		.,		1,982
,USI					Bridge Program / System								942

Interstate Paveme	ent												
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$	-	\$	-
			***************************************	***************************************	Inst	erstate Pave	ment subtotal >	\$	-	\$	-	\$	- ■ 90% Federal + 10% Non-Federal
Non-Interstate Pa	vement												
	Non-Interstate Pavement	608473	Pioneer Valley	South Hadley	SOUTH HADLEY- RESURFACING AND RELATED WORK ON ROUTE 116	2	NHPP	\$	2,208,960	\$ 1,7	67,168	\$ 441	792
	Non-Interstate Pavement	604209	Pioneer Valley	Multiple	HOLYOKE- WEST SPRINGFIELD- REHABILITATION OF ROUTE 5	2	NHPP	ــــــــــــــــــــــــــــــــــــــ	13,953,264			L	
					Non-Int	erstate Pave	ement subtotal >	\$	16,162,224	\$ 12,9	29,779	\$ 3,232,	145
Roadway Improv	ements												
	Roadway Improvements		Pioneer Valley		RoadwayImprovements			\$		\$		\$	-
					Roadv	vay Improven	nents subtotal 🕨	\$	-	\$	-	\$	- ■ 80% Federal + 20% Non-Federal
Safety Improvem	ents												
	Safety Improvements	608573	Central Mass	Multiple	UXBRIDGE TO WORCESTER- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION	3	HSIP	\$	1,213,380	\$ 1,0	92,042	\$ 121	338
	Safety Improvements	608575	Pioneer Valley	Multiple	CHICOPEE TO HOLYOKE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-391	2	HSIP	\$	542,872	\$ 4	88,585	\$ 54	287
	Safety Improvements	608572	SE Mass	Multiple	DARTMOUTH TO RAYNHAM- GUIDE AND TRAFFIC SIGN REPLACEMENT ON SECTIONS OF I-195 AND I-495	5	HSIP	\$	8,139,312	\$ 7,3	25,381	\$ 813	931
	Safety Improvements	608608	Boston Region	Braintree	BRAINTREE- HIGHWAY LIGHTING IMPROVEMENTS AT I-93/ROUTE 3 INTERCHANGE	6	NHPP	\$	2,688,726	\$ 2,4	19,853	\$ 268	873
	Safety Improvements	608611	Boston Region	Multiple	CANTON- MILTON- RANDOLPH- REPLACEMENT AND REHABILITATION OF THE HIGHWAY LIGHTING SYSTEM AT THE ROUTE 24/ROUTE 1/I 93 INTERCHANGE	6	NHPP	\$	9,434,070	\$ 8,4	90,663	\$ 943	407
	Safety Improvements	608583	Statewide	Multiple	STATEWIDE- VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP -TO BE DETERMINED (2020)	Multiple	HSIP	\$	898,307	\$ 8	08,476	\$ 89	831
Section 2R / State	Prioritized Moder	nization Proje	)		Saf	ety Improven	nents subtotal ▶	\$	22,916,667	\$ 20,6	25,000	\$ 2,291,	667
ADA Retrofits	Thermized Modern	mzation r 10je											
ADA NOUGOILO	ADA Retrofits		Pioneer Valley		ADA Retrofits			\$	-	\$	-	\$	-
				1		ADA De	l trofits subtotal ▶	e	-	Ф.		e	- ■ 80% Federal + 20% Non-Federal

Intersection Imp	rovements												
	Intersection Improvements	608562	Boston Region	Somerville	SOMERVILLE- SIGNAL AND INTERSECTION IMPROVEMENT ON I-93 AT MYSTIC AVENUE AND MCGRATH HIGHWAY (TOP 200 CRASH LOCATION)	4	HSIP	\$	5,000,000	\$	4,500,000	\$ 500	000
	Intersection Improvements	606011	Franklin	Multiple	DEERFIELD- WHATELY- RESURFACING & RELATED WORK ON ROUTES 5 &10, FROM OLD STATE ROAD TO CONWAY ROAD (1.1 MILES)	2	HSIP	\$	1,500,000	\$	1,350,000	\$ 150	000
	Intersection Improvements	608757	Central Mass	Worcester	WORCESTER- INTERSECTION IMPROVEMENTS AT WEST MOUNTAIN STREET AT 1-190 FRONTAGE ROAD & BROOKS STREET EXTENSION	3	HSIP	\$	2,500,000	\$	2,250,000	\$ 250	000
	Intersection Improvements	606272	Cape Cod	Barnstable	BARNSTABLE- INTERSECTION IMPROVEMENTS AT IYANOUGH ROAD (ROUTE 28) AND YARMOUTH ROAD	5	NFP	\$	540,800	\$	486,720	\$ 54	080
	Intersection Improvements	608086	Old Colony	Avon	AVON- INTERSECTION IMPROVEMENTS AT HARRISON BOULEVARD AND POND STREET	5	CMAQ	\$	3,888,000	\$	3,499,200	\$ 388	300
	Intersection Improvements	607756	Berkshire	Great Barrington	GREAT BARRINGTON- INTERSECTION & SIGNAL IMPROVEMENTS ON US 7 (SOUTH MAIN STREET) AT SR 23 & SR 41 (MAPLE AVENUE)	1	HSIP	\$	1,949,630	\$	1,754,667	\$ 194	963
	Intersection Improvements	607342	Boston Region	Milton	MILTON- INTERSECTION & SIGNAL IMPROVEMENTS @ ROUTE 28 (RANDOLPH	6	HSIP	\$	1,531,200	\$	1,378,080	\$ 153	120
	Intersection Improvements	607759	Boston Region	Boston	BOSTON- INTERSECTION & SIGNAL IMPROVEMENTS AT THE VFW PARKWAY & SPRING STREET	6	HSIP	\$	974,815	\$	877,334	\$ 97	182
					Intersect	tion Improven	nents subtotal ▶	\$	17,884,445	\$ 1	6,096,001	\$ 1,788,	45
Intelligent Trans	sportation Systems												
	Intelligent Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$	-	\$	-
				·	Intelligent Trans	sportation Sy	stem subtotal ▶	\$	-	\$	-	\$	- ■ 80% Federal + 20% Non-Federal
Roadway Recor	struction												
	Roadway Reconstruction		Pioneer Valley		Roadway Reconstruction			\$		\$		\$	-
					Roadwa	ay Reconstru	ction subtotal ►	\$	-	\$	-	\$	-
Section 2C / Sta	te Prioritized Expan	ision Projects											
Bicycles and Pe	destrians												
	Bicycles and Pedestrians	602911	Pioneer Valley	Chicopee	CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW CHANNEL	2	CMAQ	\$	3,247,643	\$	2,598,114	\$ 649	529 Construction / PSAC score 25.5
					Bicycle	s and Pedest	rians subtotal 🕨	\$	3,247,643	\$	2,598,114	\$ 649,	329 ◀ 80% Federal + 20% Non-Federal
Capacity			,			·		·					
	Capacity		Pioneer Valley		Capacity			\$	-	\$	-	\$	-
		i .		8	1	1	1	1			- 1		I and the second

	Pioneer Valley Pioneer Valley Pioneer Valley	Metropolitan Planning State Planning and Research Work Program I, (SPR I), Planning State Planning and Research Work Program II,	Multiple Multiple	\$		\$	- \$	-	
	Pioneer Valley	State Planning and Research Work Program I, (SPR I), Planning				ý.	- 12		
		(SPR I), Planning	Multiple	\$	1				-
	Pioneer Valley	State Planning and Research Work Program II			-	\$	- \$	-	
	l l	(SPR II), Research	Multiple	\$	-	\$	- \$	-	
	Pioneer Valley	Railroad Crossings	Multiple	\$	-	\$	- \$	-	
	Pioneer Valley	Railroad Crossings	Multiple	\$	-	\$	- \$	-	
	Pioneer Valley	Recreational Trails	Multiple	\$	-	\$	- \$	-	
/ Non-Federally Aided Projects									
	B:	N F. L I A. I							T
Non Federal Aid	Pioneer Valley	Non-Federal Aid		\$	-		\$	-	
Non-Federally Aided Projects	Pioneer Valley	Non-Federal Aid		\$	-		\$	-	
		<u> </u>	Non-Federal Aid s	ubtotal▶ \$	-		S S	-	◀100% Non-Federal
Summary				1.7					
				TIDO		TIP Section			1

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road.

The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Aw arding Authority. For all projects contained in the TIP, the Commonw ealth is the Aw arding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TIP, the Municipality acknowledges that 701 CMR 7.00 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division website: http://www.massdot.state.ma.us/Highway/ltaggers/main.aspx

2021												
Section 1B / Earma	rk or Discretiona	ry Grant Fund	ed Projects									
Other Federal Aid	T		I	T	Tour Edward	I	1		Y.			T.
			Pioneer Valley		Other Federal Aid		HPP	\$	- \$	-	\$ -	
			Pioneer Valley		Other Federal Aid		HPP	\$	- \$	-	\$ -	
						Other Federa	al Aid subtotal ▶	\$	- \$	-	\$ -	■ Funding Split Varies by Funding Source
Section 2A / State F		ility Projects										
► Bridge Program / Ir	nspections		Ţ	1	-	7	7				<b>/</b>	7
	Bridge Program		Pioneer Valley		Bridge Inspection			\$	- \$	-	\$ -	
	Bridge Program		Pioneer Valley		Bridge Inspection			\$	- \$	-	\$ -	
			l		Bridge Prog	gram / Inspec	tions subtotal ▶	\$	- \$	-	\$ -	◀ Funding Split Varies by Funding Source
► Bridge Program / O	ff-System							1	- 1			**
					LENOX- BRIDGE REPLACEMENT, L-07-006,							
	Bridge Program	608636	Berkshire Region	LENOX	ROARING BROOK ROAD OVER ROARING BROOK	1	STP-BR-OFF	\$ 1,122,8	80 \$	898,304	\$ 224,576	
					SAVOY- BRIDGE SUPERSTRUCTURE							
	Bridge Program	608647	Berkshire Region	SAVOY	REPLACEMENT, S-06-003, CENTER ROAD OVER CENTER BROOK	1	STP-BR-OFF	\$ 813,	40 \$	650,992	\$ 162,748	
	Bridge Program	608634	Franklin Region	DEERFIELD	DEERFIELD- BRIDGE PRESERVATION D-06-	2	STP-BR-OFF	\$ 6,551,2	00 \$	5,240,960	\$ 1,310,240	
	Bridge Frogram		Trankiii region	DECINITED	001, UPPER ROAD OVER DEERFIELD RIVER MAYNARD- BRIDGE REPLACMENT, M-10-006,	-	OII -BIC-OII	\$ 0,001,2	Ψ	3,240,300	Ψ 1,510,240	
	Bridge Program	608637	Boston Region	MAYNARD	CARRYING FLORIDA ROAD OVER THE ASSABET	3	STP-BR-OFF	\$ 1,646,4	00 \$	1,317,120	\$ 329,280	
					RIVER KINGSTON- BRIDGE REPLACEMENT, K-01-014,				-			
	Bridge Program	608615	Old Colony	KINGSTON	SMITHS LANE OVER ROUTE 3 (PILGRIM	5	STP-BR-OFF	\$ 12,788,0	000 \$	10,230,400	\$ 2,557,600	***************************************
			Southeastern		HIGHWAY) TAUNTON- BRIDGE REPLACEMENT, T-01-024,							
	Bridge Program	608616	Mass	TAUNTON	SCADDING STREET OVER SNAKE RIVER.	5	STP-BR-OFF	\$ 942,	500 \$	754,000	\$ 188,500	
	Bridge Program	603796	Southeastern	MANSFIELD	MANSFIELD- BRIDGE REPLACEMENT, M-03-003 & M-03-045, BALCOM STREET OVER THE	5	STP-BR-OFF	\$ 768.0	000 \$	614,400	\$ 153,600	
			Mass		WADING RIVER							
	Bridge Program	608617	Cape Cod	HARWICH	HARWICH- BRIDGE REPLACEMENT, H-10-019, AZALEA DRIVE OVER HERRING RIVER	5	STP-BR-OFF	\$ 899,	800 \$	719,840	\$ 179,960	0000
	Bridge Program	608618	Southeastern Mass	REHOBOTH	REHOBOTH- BRIDGE REPLACEMENT, R-04- 004, REED STREET OVER PALMER RIVER	5	STP-BR-OFF	\$ 1,220,0	00 \$	976,000	\$ 244,000	
			1		FALL RIVER- BRIDGE REPLACEMENT, F-02-019,							
	Bridge Program	608619	Southeastern Mass	FALL RIVER	WEAVER STREET OVER MASSACHUSETTS COASTAL RAILROAD	5	STP-BR-OFF	\$ 4,612,	00 \$	3,689,680	\$ 922,420	
					PITTSFIELD- BRIDGE REPLACEMENT, P-10-034,				-			
	Bridge Program	608854	Berkshire Region	PITTSFIELD	MILL STREET OVER W. BRANCH OF HOUSATONIC RIVER	1	STP-BR-OFF	\$ 1,776,7	72 \$	1,421,418	\$ 355,354	
			1	L		gram / Off-Sy	stem subtotal ▶	\$ 33,141,3	93 \$ 2	26,513,115	\$ 6,628,279	◀ 80% Federal + 20% Non-Federal
► Bridge Program / C	n-System (NHS)							-	- 1			***
MENDMENT:Move					HADLEY- BRIDGE REPLACEMENT, H-01-005,	_						O CONTRACTOR OF
Project - (FROM 2020)	Bridge Program	608460	Pioneer Valley	HADLEY	BAY ROAD (ROUTE 47) OVER THE FORT RIVER	2	NHPP-On	\$ 5,647,9	95 \$	4,518,396	\$ 1,129,599	
					FITCHBURG- BRIDGE REPLACEMENT AND							
					RELATED WORK, F-04-017, WATER STREET							
	Bridge Program	608189	Pioneer Valley	FITCHBURG	(STATE 2A) OVER BOULDER DRIVE AND PANAM RAILROAD & F-04-018, WATER STREET (ROUTE	3	NHPP-On	\$ 21,643,	216 \$	17,314,573	\$ 4,328,643	
					12) OVER NORTH NASHUA RIVER							
	Dalata a C		D B :	поото:	BOSTON- BRIDGE REPLACEMENT, B-16-016,		NUIDO O			40.000.000		AC Veer Field Takel Control 70 040 400
	Bridge Program	604173	Boston Region	BOSTON	NORTH WASHINGTON STREET OVER THE BOSTON INNER HARBOR	6	NHPP-On	\$ 20,000,	5 000	16,000,000	\$ 4,000,000	AC Year 5 of 6, Total Cost \$176,318,433
	Bridge Program	605306	Merrimack Valley	HAVERHILL	HAVERHILL- BRIDGE REPLACEMENT, H-12-039,	4	NHPP-On	\$ 19,797,	31 \$	15,838,185	\$ 3,959,546	AC Year 4 of 6, Total Cost \$118,786,388
					I-495 (NB & SB) OVER MERRIMACK RIVER CHELSEA- ROUTE 1 VIADUCT REHABILITATION							
	Bridge Program	605287	Boston Region	CHELSEA	(SB/NB) ON C-09-007 & C-09-011	6	NHPP-On	\$ 29,992,	90 \$ :	23,994,392	\$ 5,998,598	AC Year 4 of 4, Total Cost \$213,972,689
					LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18-	<b></b>			_		<b>/</b>	
	Bridge Program	604952	Boston Region	LYNN	016=S-05-008, ROUTE 107 OVER THE SAUGUS	4	NHPP-On	\$ 17,028,	354 \$	13,622,683	\$ 3,405,671	AC Year 3 of 5, Total Cost \$74,471,140
					RIVER (AKA - BELDEN G. BLY BRIDGE)							
	3 3			1								
				NORTHAMPTO	NORTHAMPTON- BRIDGE RECONSTRUCTION,					1		
	Bridge Program	606552	Pioneer Valley	NORTHAMPTO N	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD	2	NHPP-On	\$ 11,378,3	53 \$	9,102,682	\$ 2,275,671	AC Year 2 of 5, Total Cost \$56,891,767

► Bridge Program / O	n-System (Non-N	IHS)											
	Bridge Program	1	Pioneer Valley	ESSEX	ESSEX- SUPERSTRUCTURE REPLACEMENT, E- 11-001 (2TV), ROUTE 133\MAIN STREET OVER	4	NHPP-Off	\$	4,511,360	\$ 3,60	09,088	\$ 902,272	
					Bridge Program / On-S	System (Non-	NHS) subtotal <b>&gt;</b>	\$	4,511,360	\$ 3,60	9,088	\$ 902,272	■ 80% Federal + 20% Non-Federal
Bridge Program / S	ystematic Mainte	enance											
	Bridge Program	ТВА	Pioneer Valley	Multiple	DISTRICT 1- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS (2021)	1	NHPP-Off	\$	522,200	\$ 4	17,760	\$ 104,440	
	Bridge Program	608551	Pioneer Valley	Multiple	DISTRICT 2- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS (2021)	2	NHPP-Off	\$	1,325,862	\$ 1,06	60,690	\$ 265,172	
DJUSTMENT:Increase	Bridge Program	608590	Pioneer Valley	Multiple	DISTRICT 3- CLEAN AND PAINT STRUCTURAL STEEL BRIDGES ON I-190 AND I-290	3	NHPP-On	\$	3,015,220	\$ 2,4	12,176	\$ 603,044	
DJUSTMENT:Increase ost	Bridge Program	608593	Pioneer Valley	Multiple	DISTRICT 5- SYSTEMATIC BRIDGE PRESERVATION ALONG THE I-195 CORRIDOR	5	NHPP-On	\$	2,298,657	\$ 1,83	38,926	\$ 459,731	
	Bridge Program	608610	Boston Region	NEWTON	NEWTON- STEEL SUPERSTRUCTURE CLEANING (FULL REMOVAL) AND PAINTING OF N-12-055	6	NHPP-On	\$	2,304,000	\$ 1,84	43,200	\$ 460,800	
		I			Bridge Program / System	natic Mainten	.i nance subtotal ▶	\$	9,465,939	\$ 7,57	2,751	\$ 1,893,188	◀ Funding Split Varies by Funding Source
Interstate Pavemen	t							1					1
	Interstate Pavement		Pioneer Valley		Interstate Pavement			\$	-	\$	-	\$ -	
					Inst	terstate Pave	ment subtotal ►	\$	-	\$	- 1	\$ -	■ 90% Federal + 10% Non-Federal
Non-Interstate Pave	ment												
	Non-Interstate Pavement	608487	Pioneer Valley	Westfield	WESTFIELD- RESURFACING AND RELATED WORK ON RTE 10 AND 202	2	NHPP	\$	2,676,240	\$ 2,14	40,992	\$ 535,248	
	Non-Interstate Pavement	608489	Pioneer Valley	Wilbraham	WILBRAHAM- RESURFACING AND RELATED WORK ON ROUTE 20	2	NHPP	\$	8,602,200	\$ 6,88	31,760	\$ 1,720,440	
	-				Non-Int	terstate Pave	ment subtotal ►	\$	11,278,440	\$ 9,02	2,752	\$ 2,255,688	■ 80% Federal + 20% Non-Federal
Roadway Improver	nents												
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$	-	\$ -	
		***************************************			Roadv	way Improven	nents subtotal 🕨	\$	-	\$	-	\$ -	■ 80% Federal + 20% Non-Federal
Safety Improvemen	nts												
	Safety Improvements	609090	Boston Region	Multiple	BOSTON-MILTON-QUINCY-HIGHWAY LIGHTING SYSTEM REPLACEMENT ON I-93, FROM	6	NHPP	\$	3,000,000	\$ 2,70	00,000	\$ 300,000	
	Safety Improvements	608620	Statewide	Multiple	ANDOVER- TEWKSBURY- HIGHWAY LIGHTING SYSTEM REHABILITATION AND REPAIR AT THE INTERCHANGE OF INTERSTATE ROUTES 93 AND 495	4	NHPP	\$	5,152,000	\$ 4,63	36,800	\$ 515,200	
	Safety Improvements	608584	Statewide	Multiple	STATEWIDE-VARIOUS SAFETY STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2021)	Multiple	HSIP	\$	4,000,000	\$ 3,60	00,000	\$ 400,000	
	Safety Improvements	608759	SE Mass	Swansea	SWANSEA- TRAFFIC SIGNAL AND SAFETY IMPROVEMENTS AT THREE INTERSECTIONS ON ROUTE 6	5	HSIP	\$	7,020,000	\$ 6,3	18,000	\$ 702,000	
					Sal	fety Improven	nents subtotal 🕨	\$	19,172,000	\$ 17,2	54,800	\$ 1,917,200	■ Funding Split Varies by Funding Source
Section 2B / State P	rioritized Mode	rnization Proje	ects										
ADA Retrofits													
	ADA Retrofits		Pioneer Valley		ADA Retrofits			\$	-	\$	-	\$ -	
		L	<u> </u>				 trofits subtotal ▶	-	-	¢	-	•	■ 80% Federal + 20% Non-Federal

Intersection Imp	provements											
	Intersection Improvements	607761	Boston Region	Swampscott	SWAMPSCOTT- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 1A (PARADISE ROAD) AT SWAMPSCOTT MALL	4	HSIP	\$	2,000,000	\$ 1,800,000	\$ 200,0	00
	Intersection Improvements	608053	SE Mass	Mansfield	MANSFIELD- INTERSECTION & SIGNAL IMPROVEMENTS AT SR 140 (COMMERCIAL STREET) & SR 106 (CHAUNCEY STREET)	5	NHPP	\$	974,815	\$ 877,334	\$ 97,4	82
	Intersection Improvements	606450	Pioneer Valley	Holyoke	HOLYOKE-TRAFFIC SIGNAL UPGRADES AT 15 INTERSECTIONS ALONG HIGH & MAPLE STREETS	2	CMAQ	\$	4,450,000	\$ 4,005,000	\$ 445,0	00
	Intersection Improvements	608561	Montachusett	Leominster	LEOMINSTER-IMPROVEMENTS AT ROUTE 12 (NORTH MAIN STREET) AT HAMILTON STREET; ROUTE 12 (NORTH MAIN STREET) AT NELSON STREET	3	HSIP	\$	3,000,000	\$ 2,700,000	\$ 300,0	00
	***************************************				Intersect	tion Improvem	nents subtotal <b>&gt;</b>	\$	18,424,815	\$ 16,582,334	\$ 1,842,4	32 ◀ Funding Split Varies by Funding Sourc
Intelligent Trans	sportation Systems							-			-	
go ii - i aii	Intelligent Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$ -	\$	-
			·		Intelligent Trans	sportation Sy	stem subtotal ▶	\$	-	\$ -	\$	- ■ 80% Federal + 20% Non-Federal
Roadway Recon	nstruction				<u></u>			-				·
	Roadway Reconstruction		Pioneer Valley		Roadway Reconstruction			\$	-	\$ -	\$	-
					Roadw	ay Reconstru	ction subtotal ►	. \$	-	\$ -	\$	-   Funding Split Varies by Funding Source
0												
ASTATOLICATION AND ASSAULT	te Prioritized Evnan	sion Projects										
	te Prioritized Expan	sion Projects										
		sion Projects			SCREINCEICI D. MOVANICHT COMMINITY TRAII			,			,	
			Pioneer Valley	Springfield	SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	2	CMAQ	\$	3,694,624	\$ 2,955,699	\$ 738,9	25 Construction / PSAC score 30.5
	Bicycles and		Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)		CMAQ	l'				25 Construction / PSAC score 30.5  4 80% Federal + 20% Non-Federal
Bicycles and Pe	Bicycles and		Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)			l'				
Bicycles and Pe	Bicycles and Pedestrians	608157		Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles			\$	3,694,624	\$ 2,955,699	\$ 738,9	25 <b>■</b> 80% Federal + 20% Non-Federal
► Bicycles and Per	Bicycles and	608157	Pioneer Valley Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)			l'	3,694,624	\$ 2,955,699		
Bicycles and Pe	Bicycles and Pedestrians	608157		Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles	s and Pedest		\$	3,694,624	\$ 2,955,699	\$ 738,9	25 ◀ 80% Federal + 20% Non-Federal
Bicycles and Per	Bicycles and Pedestrians  Capacity	608157	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles	s and Pedest	rians subtotal ▶	\$	3,694,624	\$ 2,955,699	\$ 738,9	25 ◀ 80% Federal + 20% Non-Federal
Bicycles and Per	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles	s and Pedest	rians subtotal ▶	\$	3,694,624	\$ 2,955,699	\$ 738,9	■ 80% Federal + 20% Non-Federal
Bicycles and Per Capacity  Section 3 / Plant	Bicycles and Pedestrians  Capacity	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity	s and Pedest	rians subtotal ▶	\$ \$	3,694,624	\$ 2,955,699 \$ - \$ -	\$ 738,9 \$ \$	25 ■ 80% Federal + 20% Non-Federal  - □ ■ Funding Split Varies by Funding Source
Bicycles and Per Capacity Section 3 / Plant	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley  S  Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment	s and Pedest  Cap  Multiple	rians subtotal ▶	\$ \$	3,694,624	\$ 2,955,699 \$ - \$ -	\$ 738,9	25 ◀ 80% Federal + 20% Non-Federal  -
Bicycles and Per Capacity  Section 3 / Plant	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley  Pioneer Valley Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment	Cap Multiple Multiple	rians subtotal ▶	\$ \$ • \$		\$ 2,955,699 \$ - \$ - \$ -	\$ 738,9 \$ \$	■ 80% Federal + 20% Non-Federal  Funding Split Varies by Funding Source  Funding Split Varies by Funding Source
Bicycles and Per Capacity Section 3 / Plant	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment AWard adjustments, change orders, etc.	Cap  Multiple Multiple Multiple Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,694,624	\$ 2,955,699 \$ - \$ - \$ - \$ - \$ -	\$ 738,9 \$ \$ \$ \$	Solution   4 80% Federal + 20% Non-Federal   25
Bicycles and Per Capacity Section 3 / Plant	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment AWard adjustments, change orders, etc.  Award adjustments, change orders, etc.	Cap  Multiple Multiple Multiple Multiple Multiple Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,694,624 - - - -	\$ 2,955,699	\$ 738,9 \$ \$ \$ \$ \$ \$	25 ◀ 80% Federal + 20% Non-Federal  -
Bicycles and Per Capacity Section 3 / Plant	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment Award adjustments, change orders, etc. Award adjustments, change orders, etc. Award adjustments, change orders, etc.	Cap  Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,694,624	\$ 2,955,699 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 738,9 \$ \$ \$ \$ \$ \$ \$	■ Solution Split Varies by Funding Source  Funding Split Varies by Funding Source
Bicycles and Per Capacity Section 3 / Plant	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment Award adjustments, change orders, etc.	Cap  Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,694,624	\$ 2,955,699 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 738,9 \$ \$ \$ \$ \$ \$ \$ \$ \$	25 ■ 80% Federal + 20% Non-Federal  - □ □ ■ Funding Split Varies by Funding Source - □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Bicycles and Per Capacity Section 3 / Plant	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment AWard adjustments, change orders, etc.	Cap  Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$	3,694,624	\$ 2,955,699 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 738,9 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	80% Federal + 20% Non-Federal  Funding Split Varies by Funding Sour  Funding Split Varies by Funding Sour  Funding Split Varies by Funding Sour
Bicycles and Per	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment Award adjustments, change orders, etc.	Cap  Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - - - - - - - - -	\$ 2,955,699 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 738,9 \$ \$ \$ \$ \$ \$ \$ \$ \$	25 ■ 80% Federal + 20% Non-Federal  - □ □ ■ Funding Split Varies by Funding Source - □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
Bicycles and Per	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment Award adjustments, change orders, etc. Metropolitan Planning Metropolitan Planning State Planning and Research Work Program I,	Cap  Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,694,624	\$ 2,955,699 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 738,9 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25 ◀ 80% Federal + 20% Non-Federal  -
Bicycles and Per	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment Award adjustments, change orders, etc. Metropolitan Planning State Planning and Research Work Program I, (SPR I), Planning State Planning and Research Work Program II,	Cap  Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,694,624	\$ 2,955,699 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ 738.9 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	80% Federal + 20% Non-Federal  Funding Split Varies by Funding Sour  Funding Split Varies by Funding Sour  Funding Split Varies by Funding Sour
Bicycles and Per	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment Award adjustments, change orders, etc. Metropolitan Planning Metropolitan Planning State Planning and Research Work Program I, (SPR I), Planning State Planning and Research Work Program II, (SPR I), Research	Cap  Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,694,624	\$ 2,955,699  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 738.9 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25 ◀ 80% Federal + 20% Non-Federal  -
Bicycles and Per	Bicycles and Pedestrians  Capacity  Adjustments /	608157 Pass-through	Pioneer Valley	Springfield	CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)  Bicycles  Capacity  ABP GANS Repayment ABP GANS Repayment Award adjustments, change orders, etc. Setc. Award adjustments, change orders, etc.	Cap Multiple	rians subtotal ▶	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	3,694,624	\$ 2,955,699  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ 738.9 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	25 ◀ 80% Federal + 20% Non-Federal  -

Statewide Project Listing \_\_\_\_\_\_ 101

Non-Federally Aided P	ally Aided Proj Projects										
No	on Federal Aid	Pioneer Valley	Non-Federal Aid				\$ -			\$ -	
	•			N	on-Federa	l Aid subtotal <b>▶</b>	\$ -			\$ -	◀100% Non-Federal
2021 Summar	W						TIP Section 1	- TIP Section	1 4:  ˈ	Total of All	
.021 Julilliai	У						3: ▼	▼		Projects ▼	
						Total ▶	\$ 225,177,210	\$	- 1	\$ 225,177,210	■ Total Spending in Region
					F		\$ 183,901,450				◀ Total Federal Spending in Region
					Non-Fr	ederal Funds >	\$ 41 275 761	\$	. 1	\$ 41 275 761	■ Total Non-Federal Spending in Region

701 CMR 7.00 Use of Road Faggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority. For all projects contained in the TIP, the Commonw ealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TIP, the Municipality acknowledges that 70.0 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassSOT Highway Division we biste: http://www.massdot.state.mu.su/Highway/Ilaggers/main.aspx.

022	0 5 :										
	State Prioritized Reliabili	ity Projects									
Bridge Progr	ram / Inspections				·						<b>~</b>
	Bridge Program	***************************************	Pioneer Valley	Multiple	Bridge Inspection	Multiple	NHPP	\$ 11,933,33	3 \$ 9,546,667	\$ 2,386,667	
	Bridge Program		Pioneer Valley	Multiple	Bridge Inspection	Multiple	STP-BR-OFF	\$ 5,966,66			
					Bridge Prog	ram / Inspec	tions subtotal ▶	\$ 17,900,00	<b>0</b> \$ 14,320,000	\$ 3,580,000	■ Funding Split Varies by Funding Source
Bridge Progr	ram / Off-System									-	•
	Bridge Program	605296	Montachusett	FITCHBURG	FITCHBURG- BRIDGE PRESERVATION, F-04- 011, CIRCLE STREET OVER NORTH NASHUA RIVER	3	STP-BR-OFF	\$ 3,058,68	8 \$ 2,446,950	\$ 611,738	
	Bridge Program	608862	Central Mass, Montachusett	SOUTHBRIDGE	SOUTHBRIDGE-BRIDGE REPLACEMENT, S-21- 009, MILL STREET OVER THE MCKINSTRY BROOK	3	STP-BR-OFF	\$ 1,500,00	0 \$ 1,200,000	\$ 300,000	
	Bridge Program	608861	Northern Middlesex	WESTFORD	WESTFORD- BRIDGE REPLACEMENT, W-26- 002, STONY BROOK ROAD OVER THE STONY BROOK	3	STP-BR-OFF	\$ 2,205,12	0 \$ 1,764,096	\$ 441,024	
	Bridge Program	608907	Central Mass	UXBRIDGE	UXBRIDGE- BRIDGE REPLACEMENT, U-02-052, ROUTE 146 RAMP OVER EMERSON BROOK	3	STP-BR-OFF	\$ 1,518,86	2 \$ 1,215,090	\$ 303,772	
	Bridge Program	608851	Central Mass	HARDWICK- NEW BRAINTREE	HARDWICK- NEW BRAINTREE- BRIDGE REPLACEMENT, H-08-003=N-07-002, CREAMERY ROAD OVER WARE RIVER	2	STP-BR-OFF	\$ 4,123,10	4 \$ 3,298,483	\$ 824,621	
	Bridge Program	608850	Montachusett	PETERSHAM	PETERSHAM- BRIDGE REPLACEMENT, P-08- 002, GLEN VALLEY ROAD OVER EAST BRANCH OF SWIFT RIVER	2	STP-BR-OFF	\$ 4,569,93	6 \$ 3,655,949	\$ 913,987	
	Bridge Program	608849	Franklin Region	LEVERETT	LEVERETT- BRIDGE REPLACEMENT, L-09-003, MILLERS ROAD OVER ROARING BROOK	2	STP-BR-OFF	\$ 1,128,91	2 \$ 903,130	\$ 225,782	
	Bridge Program	608869	Pioneer Valley	NORTHAMPTO N	NORTHAMPTON- BRIDGE REPLACEMENT, N-19- 068, OLD SPRINGFIELD ROAD OVER THE MILL RIVER	2	STP-BR-OFF	\$ 3,981,00	0 \$ 3,184,800	\$ 796,200	
	Bridge Program	608847	Pioneer Valley	WALES	WALES- BRIDGE REPLACEMENT, W-02-002, HOLLAND ROAD OVER WALES BROOK	2	STP-BR-OFF	\$ 540,09	6 \$ 432,077	\$ 108,019	
	Bridge Program	608855	Franklin Region	ROWE	ROWE- BRIDGE REPLACEMENT, R-10-008, CYRUS STAGE ROAD OVER POTTER BROOK	1	STP-BR-OFF	\$ 1,990,56	0 \$ 1,592,448	\$ 398,112	
	Bridge Program	608856	Berkshire Region	OTIS	OTIS- BRIDGE REPLACEMENT, O-05-007, TANNERY ROAD OVER W. BRANCH OF FARMINGTON RIVER	1	STP-BR-OFF	\$ 821,28	0 \$ 657,024	\$ 164,256	
	Bridge Program	608857	Berkshire Region	CHESHIRE	CHESHIRE- BRIDGE REPLACEMENT, C-10-002, SAND MILL ROAD OVER DRYBROOK	1	STP-BR-OFF	\$ 2,462,44	8 \$ 1,969,958	\$ 492,490	
	Bridge Program	608858	Franklin Region	CHARLEMONT	CHARLEMONT- BRIDGE REPLACEMENT, C-05- 042, EAST OXBOW ROAD OVER OXBOW BROOK	1	STP-BR-OFF	\$ 1,396,17	6 \$ 1,116,941	\$ 279,235	
	Bridge Program	608860	Berkshire Region	PITTSFIELD	PITTSFIELD- BRIDGE REPLACEMENT, P-10-055, EAST NEW LENOX ROAD OVER SACKETT BROOK	1	STP-BR-OFF	\$ 573,50	4 \$ 458,803	\$ 114,701	
	Bridge Program	608859	Berkshire Region	TYRINGHAM	TYRINGHAM- BRIDGE REPLACEMENT, T-10-003, JERUSALEM ROAD OVER HOP BROOK	1	STP-BR-OFF	\$ 3,087,32	5 \$ 2,469,860	\$ 617,465	
	Bridge Program	608846	Pioneer Valley	MONSON	MONSON- BRIDGE REPLACEMENT, M-27-015, OLD WALES ROAD OVER CONANT BROOK	2	STP-BR-OFF	\$ 1,742,78	4 \$ 1,394,227	\$ 348,557	
				A		gram / Off-Sy	stem subtotal ▶	\$ 34,699,79	5 \$ 27,759,836	\$ 6,939,959	◀ 80% Federal + 20% Non-Federal

Statewide Project Listing \_\_\_\_\_\_ 103

► Bridge Program / O	n-System (NHS)										
- Bridge i Togram / O	- Cystem (Mile)										
AMENDMENT:Move Project - (FROM 2020)	Bridge Program	608614	Berkshire Region	BOSTON	BOSTON- BRIDGE SUBSTRUCTURE REPAIRS, B-16-179, AUSTIN STREET OVER I-93 RAMPS, MBTA COMMUTER RAIL AND ORANGE LINE	6	NHPP-On	\$ 22,132,800	\$ 17,706,240	\$ 4,426,560	
	Bridge Program	607327	Boston Region	WILMINGTON	WILMINGTON- BRIDGE REPLACEMENT, W-38- 002, ROUTE 38 (MAIN STREET) OVER THE B&M RAILROAD	4	NHPP-On	\$ 10,760,960	\$ 8,608,768	\$ 2,152,192	
	Bridge Program	606548	Franklin Region	GREENFIELD	GREENFIELD- BRIDGE REPLACEMENT, G-12- 052 (0XR) & G-12-053 (0XT), I-91 (NB & SB) OVER BMRR	2	NHPP-On	\$ 20,563,987	\$ 16,451,190	\$ 4,112,797	
	Bridge Program	604173	Boston Region	BOSTON	BOSTON- BRIDGE REPLACEMENT, B-16-016, NORTH WASHINGTON STREET OVER THE BOSTON INNER HARBOR	6	NHPP-On	\$ 18,436,073	\$ 14,748,858	\$ 3,687,215	AC Year 6 of 6, Total Cost \$176,318,433
	Bridge Program	605306	Merrimack Valley	HAVERHILL	HAVERHILL- BRIDGE REPLACEMENT, H-12-039, I-495 (NB & SB) OVER MERRIMACK RIVER	4	NHPP-On	\$ 19,797,731	\$ 15,838,185	\$ 3,959,546	AC Year 5 of 6, Total Cost \$118,786,388
	Bridge Program	604952	Boston Region	LYNN	LYNN- SAUGUS- BRIDGE REPLACEMENT, L-18- 016=S-05-008, ROUTE 107 OVER THE SAUGUS RIVER (AKA - BELDEN G. BLY BRIDGE)	4	NHPP-On	\$ 21,746,735	\$ 17,397,388	\$ 4,349,347	AC Year 4 of 5, Total Cost \$74,471,140
	Bridge Program	606552	Pioneer Valley	NORTHAMPTO N	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I- 91 OVER HOCKANUM ROAD	2	NHPP-On	\$ 11,378,353	\$ 9,102,682	\$ 2,275,671	AC Year 3 of 5, Total Cost \$56,891,767
		-			Bridge Program / C	On-System (N	NHS) subtotal ▶	\$ 124,816,639	\$ 99,853,311	\$ 24,963,328	■ Funding Split Varies by Funding Source
► Bridge Program / O	n-System (Non-N	NHS)									,
AMENDMENT:Add Projec	t Bridge Program	608929	Boston Region	WILMINGTON	WILMINGTON- BRIDGE REPLACEMENT, W-38- 003, BUTTERS ROW OVER MBTA	4	NHPP-Off	\$ 5,183,360	\$ 4,146,688	\$ 1,036,672	
					Bridge Program / On-S	ystem (Non-N	NHS) subtotal ▶	\$ 5,183,360	\$ 4,146,688	\$ 1,036,672	■ 80% Federal + 20% Non-Federal
Bridge Program / Sy	ystematic Maint	enance		·	DIOTRIOTA OVOTENATIO DRIDOS						Υ
	Bridge Program	TBA	Pioneer Valley	Multiple	DISTRICT 1- SYSTEMATIC BRIDGE MAINTENANCE AT VARIOUS LOCATIONS (2022) DISTRICT 2- SYSTEMATIC BRIDGE	1	NHPP-Off	\$ 522,200	\$ 417,760	\$ 104,440	
	Bridge Program	608837	Pioneer Valley	Multiple	MAINTENANCE AT VARIOUS LOCATIONS (2022)  DISTRICT 2- SYSTEMATIC BRIDGE	2	NHPP-Off	\$ 1,540,000	\$ 1,232,000	\$ 308,000	
	Bridge Program	TBA	Pioneer Valley	Multiple	MAINTENANCE AT VARIOUS LOCATIONS (2022)	4	NHPP-Off	\$ 3,000,000	\$ 2,400,000	\$ 600,000	
	Bridge Program	608863	Pioneer Valley	Multiple	DISTRICT 5- SYSTEMATIC BRIDGE PRESERVATION ALONG THE ROUTE 24 CORRIDOR	5	NHPP-On	\$ 1,605,100	\$ 1,284,080	\$ 321,020	
	Bridge Program Bridge Program		Pioneer Valley  Boston Region	Multiple NEWTON- WESTON	PRESERVATION ALONG THE ROUTE 24 CORRIDOR NEWTON-WESTON-STEEL SUPERSTRUCTURE CLEANING (FULL REMOVAL) AND PAINTING OF 3 BRIDGES: N-12- 051, W-29-011 & W-29-028	6	NHPP-On	\$ 2,349,900	\$ 1,879,920	\$ 469,980	
	Bridge Program			NEWTON-	PRESERVATION ALONG THE ROUTE 24 CORRIDOR NEWTON-WESTON-STEEL SUPERSTRUCTURE CLEANING (FULL REMOVAL) AND PAINTING OF 3 BRIDGES: N-12- 051, W-29-011 & W-29-028	6	NHPP-On	\$ 2,349,900	\$ 1,879,920	\$ 469,980	
Cost	Bridge Program			NEWTON-	PRESERVATION ALONG THE ROUTE 24 CORRIDOR NEWTON-WESTON-STEEL SUPERSTRUCTURE CLEANING (FULL REMOVAL) AND PAINTING OF 3 BRIDGES: N-12- 051, W-29-011 & W-29-028	6	NHPP-On	\$ 2,349,900	\$ 1,879,920	\$ 469,980	
ADJUSTMENT:Decrease Cost  Interstate Pavement	Bridge Program			NEWTON-	PRESERVATION ALONG THE ROUTE 24 CORRIDOR NEWTON-WESTON-STEEL SUPERSTRUCTURE CLEANING (FULL REMOVAL) AND PAINTING OF 3 BRIDGES: N-12- 051, W-29-011 & W-29-028	6	NHPP-On	\$ 2,349,900 <b>\$ 9,017,200</b>	\$ 1,879,920 \$ 7,213,760	\$ 469,980	

► Non-Interstate Pav						,		,					
	Non-Interstate Pavement	608466	Pioneer Valley	Multiple	BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	2	NHPP	\$	4,163,040	\$ 3	3,330,432	\$ 832	508
					Non-Int	terstate Pave	ment subtotal 🕨	\$	4,163,040	\$ 3	,330,432	\$ 832,	08 ◀ 80% Federal + 20% Non-Federal
► Roadway Improve	ements												
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$	-	\$	-
			L		Roadv	vay Improvem	ents subtotal >	\$	-	\$	-	\$	- ■ 80% Federal + 20% Non-Federal
Safety Improveme	nte							-					
- Salety IIIIproveille	71110					[		т			······		
	Safety Improvements	608574	Pioneer Valley	Multiple	BURLINGTON TO TYNGSBOROUGH- GUIDE AND TRAFFIC SIGN REPLACEMENT ON A SECTION OF US 3	4	NHPP	\$	8,352,098	\$ 7	7,516,888	\$ 835	:10
	Safety Improvements	608433	Central Mass	Webster	WEBSTER- INTERSECTION IMPROVEMENTS AT I-395 RAMPS (EXIT 2) AT ROUTE 16 (EAST MAIN STREET) AND SUTTON ROAD	3	HSIP	\$	2,500,000	\$ 2	2,250,000	\$ 250	100
	Safety Improvements	608620	Statewide	Multiple	ANDOVER- TEWKSBURY- HIGHWAY LIGHTING SYSTEM REHABILITATION AND REPAIR AT THE INTERCHANGE OF INTERSTATE ROUTES 93 AND 495	4	NHPP	\$	5,152,000	\$ 4	4,636,800	\$ 515	200
	Safety Improvements	609063	SE Mass	Multiple	ATTLEBORO-NORTH ATTLEBORUGH GUIDE AND TRAFFIC SIGN REPLACEMENT ON INTERSTATE 295	5	HSIP	\$	408,454	\$	367,609	\$ 40	45
	Safety Improvements	609064	Pioneer Valley	Multiple	WAREHAM TO BOURNE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON ROUTE 25	5	HSIP	\$	448,767	\$	403,891	\$ 44	77
	improvements		1	1	SIGN REFEACEMENT ON ROOTE 25								
	[IIIIpioveillenis ]					fety Improvem	ents subtotal ▶	\$	16,861,319	\$ 15	5,175,187	\$ 1,686,	32 ◀ Funding Split Varies by Funding Source
04		i	-4-			fety Improvem	ents subtotal ▶	\$	16,861,319	\$ 15	5,175,187	\$ 1,686,	32 ◀ Funding Split Varies by Funding Source
Section 2B / State		ization Proje	ects			fety Improvem	ents subtotal ▶	\$	16,861,319	\$ 15	5,175,187	\$ 1,686,	32 ◀ Funding Split Varies by Funding Source
		ization Proje	ects			fety Improvem	ents subtotal ▶	\$	16,861,319	\$ 15	5,175,187	\$ 1,686,	32 ◀ Funding Split Varies by Funding Source
Section 2B / State ADA Retrofits		ization Proje	Pioneer Valley			fety Improvem	ents subtotal ▶	\$		\$ 15 \$		\$ 1,686, \$	32 ◀ Funding Split Varies by Funding Source
	Prioritized Modern	ization Proje			Sal		nents subtotal ▶	\$		\$	- 1	\$	32 ◀ Funding Split Varies by Funding Source  -
ADA Retrofits	Prioritized Modern	ization Proje			Sal			\$	_	\$	- 1		-
ADA Retrofits	Prioritized Modern	sization Proje			Sal ADA Retrofits			\$	_	\$	- 1	\$	
ADA Retrofits	Prioritized Modern			Peabody	Sal			\$	_	\$	- 1	\$	-
ADA Retrofits	ADA Retrofits  vements  Intersection	608567	Pioneer Valley	Peabody	ADA Retrofits  PEABODY- IMPROVEMENTS AT ROUTE 114 AT SYLVAN STREET, CROSS STREET, NORTHSHORE MALL, LORIS ROAD, ROUTE 128	ADA Reti	rofits subtotal ▶	\$	-	\$ \$	2,880,000	\$	-
ADA Retrofits	ADA Retrofits  vements  Intersection Improvements  Intersection	608567	Pioneer Valley  Boston Region		ADA Retrofits  PEABODY- IMPROVEMENTS AT ROUTE 114 AT SYLVAN STREET, CROSS STREET, NORTH-SHORE MALL, LORIS ROAD, ROUTE 128 INTERCHANGE AND ESQUIRE DRIVE YARMOUTH- IMPROVEMENTS AT MAIN STREET (ROUTE 28) AT NORTH MAIN STREET AT OLD	ADA Ret	rofits subtotal ►	\$ \$	3,200,000	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,880,000	\$ 320 \$ 278	-
ADA Retrofits	ADA Retrofits  vements  Intersection Improvements  Intersection Improvements Intersection Improvements	608568 608560	Pioneer Valley  Boston Region  Cape Cod	Yarmouth	ADA Retrofits  PEABODY- IMPROVEMENTS AT ROUTE 114 AT SYLVAN STREET, CROSS STREET, NORTHSHORE MALL, LORIS ROAD, ROUTE 128 INTERCHANGE AND ESQUIRE DRIVE  YARMOUTH- IMPROVEMENTS AT MAIN STREET (ROUTE 28) AT NORTH MAIN STREET AT OLD MAIN STREET  SPRINGFIELD- IMPROVEMENTS ON ST JAMES AVENUE AT TAPLEY STREET  STATEWIDE-VARIOUS INTERSECTION STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2022)	ADA Ret	rofits subtotal ►  HSIP  HSIP	\$ \$	3,200,000 2,784,000	\$ 2 \$ 2 \$ 2	2,880,000	\$ 320 \$ 278 \$ 268	-
ADA Retrofits	ADA Retrofits  vements  Intersection Improvements  Intersection Improvements  Intersection Improvements  Intersection Improvements  Intersection Improvements	608568 608568 608560	Pioneer Valley  Boston Region  Cape Cod  Pioneer Valley	Yarmouth	ADA Retrofits  PEABODY- IMPROVEMENTS AT ROUTE 114 AT SYLVAN STREET, CROSS STREET, NORTHSHORE MALL, LORIS ROAD, ROUTE 128 INTERCHANGE AND ESQUIRE DRIVE YARMOUTH- IMPROVEMENTS AT MAIN STREET (ROUTE 28) AT NORTH MAIN STREET AT OLD MAIN STREET  SPRINGFIELD- IMPROVEMENTS ON ST JAMES AVENUE AT TAPLEY STREET  STATEWIDE-VARIOUS INTERSECTION STRATEGIES TO ADDRESS SHSP - TO BE	ADA Ret	rofits subtotal ►  HSIP  HSIP  HSIP	\$ \$ \$	3,200,000 2,784,000 2,688,000	\$ 2 \$ 2 \$ 2	2,880,000	\$ 320 \$ 278 \$ 268 \$ 88	-
	ADA Retrofits  vements  Intersection Improvements  Intersection Improvements  Intersection Improvements  Intersection Improvements  Intersection Improvements  Intersection Improvements  Intersection Improvements	608568 608560 608841 608569	Pioneer Valley  Boston Region  Cape Cod  Pioneer Valley  Statewide	Yarmouth Springfield Multiple	ADA Retrofits  PEABODY- IMPROVEMENTS AT ROUTE 114 AT SYLVAN STREET, CROSS STREET, NORTHSHORE MALL, LORIS ROAD, ROUTE 128 INTERCHANGE AND ESQUIRE DRIVE  YARMOUTH- IMPROVEMENTS AT MAIN STREET (ROUTE 28) AT NORTH MAIN STREET AT OLD MAIN STREET  SPRINGFIELD- IMPROVEMENTS ON ST JAMES AVENUE AT TAPLEY STREET  STATEWIDE-VARIOUS INTERSECTION STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2022)  QUINCY- INTERSECTION IMPROVEMENTS AT ROUTE 3A (SOUTHERN ARTERY) AND BROAD	ADA Ret	rofits subtotal ►  HSIP  HSIP  HSIP  HSIP	\$ \$ \$ \$	3,200,000 2,784,000 2,688,000 882,667	\$ 2 \$ 2 \$ 3	2,880,000 2,505,600 2,419,200	\$ 320 \$ 278 \$ 268 \$ 88	-

itelligent mans	portation Systems Intelligent				1	1		1				
	Transportation Systems	P	ioneer Valley		Intelligent Transportation Systems			\$ -	\$	\$	-	
					Intelligent Tran	sportation Sy	stem subtotal ▶	\$ -	\$	\$	-	■ 80% Federal + 20% Non-Federal
oadway Recon	struction											
	Roadway Reconstruction	P	ioneer Valley		Roadway Reconstruction			\$ -	\$	\$	-	
					Roadw	ay Reconstru	ction subtotal ▶	\$ -	\$	\$	-	■ Funding Split Varies by Funding Source
ection 2C / Sta	te Prioritized Expans	sion Projects										
icycles and Pe	dostrians	•										
icycles and i c	ac su luns				CHICOPEE- CHICOPEE RIVER RIVERWALK							
	Bicycles and Pedestrians	602912 P	ioneer Valley	Chicopee	MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	2	CMAQ	\$ 2,273,911	\$ 1,819,12	9 \$	454,782	Construction / PSAC score 29
						s and Pedest	l rians subtotal ▶	\$ 2,273,911	\$ 1.819.12	9 \$ 4	454.782	■ 80% Federal + 20% Non-Federal
apacity					2.676.6			, -,,	1,,	· 1 *	,	
αραυιιγ		T.		1					T.	T.		
	Capacity	P	ioneer Valley		Capacity			\$ -	\$	\$	-	
	Capacity	P	ioneer Valley		Capacity			\$ -	\$	\$	-	
						Cap	acity subtotal ▶	\$ -	\$	\$	-	■ Funding Split Varies by Funding Source
ection 3 / Plan	ning / Adjustments /	Pass-throughs					•					
	tments / Pass-throug											
iaiiiiig / Aujus	unents / Fass-unoug		ioneer Valley		ABP GANS Repayment	Multiple		<b>S</b> -	rs .	. [\$		
			ioneer Valley		ABP GANS Repayment	Multiple				\$	-	
		P	ioneer Valley		Award adjustments, change orders, etc.	Multiple		\$ -	\$	\$	-	
		P	ioneer Valley		Award adjustments, change orders, etc.	Multiple		\$ -	\$	\$	-	
		P	ioneer Valley		Award adjustments, change orders, etc.	Multiple		\$ -	\$	. \$	-	
			ioneer Valley		Award adjustments, change orders, etc.	Multiple		\$ -		\$	-	
			ioneer Valley		Metropolitan Planning	Multiple		<del></del>		. \$	-	
		P	ioneer Valley		Metropolitan Planning	Multiple		\$ -	\$	. \$	-	
		P	ioneer Valley		State Planning and Research Work Program I, (SPR I), Planning	Multiple		\$ -	\$	\$	-	
		P	ioneer Valley		State Planning and Research Work Program II, (SPR II), Research	Multiple		\$ -	\$	\$	-	
		P	ioneer Valley		Railroad Crossings	Multiple		\$ -	\$	\$	-	
			ioneer Valley		Railroad Crossings	Multiple				. \$	-	
		P	ioneer Valley	l	Recreational Trails	Multiple				\$	-	
					Othe	er Statewide I	tems subtotal ▶	-	\$	\$	-	■ Funding Split Varies by Funding Source
action 4 / Non I	Endarelly Aided Drai	o oto										
	Federally Aided Proj	ecis										
lon-Federally A	ided Projects			7	ş	7		7	1			
	Non Federal Aid	P	ioneer Valley		Non-Federal Aid			\$ -		\$	-	
	Non-Federally Aided Projects	P	ioneer Valley		Non-Federal Aid			\$ -		\$	-	
						Non-Feder	al Aid subtotal▶	\$ -		\$	-	◀100% Non-Federal
122 Cum	mary							TIP Section 1	- TIP Section	4: Tota <u>l c</u>	of All	
022 Sum	mary							3: ▼	▼	Projec		
							Total ►	\$ 231,253,931	\$	\$ 231	253 931	■ Total Spending in Region
							ederal Funds ►					■ Total Spending in Region

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road.

The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Aw arding Authority. For all projects contained in the TP, the Commonw eaith is the Aw arding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00, and the Road Flagger and Police Detail Guidelines. By placing a project on the TP, the Municipality acknowledges that 70.00 is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation are following link on the MassDOT Highway Division we besite: http://www.massdot.state.ma.us/Highway/Higgers/main.aspx

ther Federal Aid													
			Pioneer Valley	T	Other Federal Aid		HPP	\$		s -	\$		
			Fiorieer valley		Offici redefal Ald		ПЕР	Φ		-	φ	-	
			Pioneer Valley		Other Federal Aid		HPP	\$	-	\$ -	\$	-	
		L		·	<u> </u>	Other Federa	l Aid subtotal ▶	\$	-	\$ -	\$	-	■ Funding Split Varies by Funding Source
ection 2A / State	Prioritized Reliab	oility Projects	5										
ridge Program /													
go i rogiumi			L	1				Τ.			r.		
	Bridge Program		Pioneer Valley		Bridge Inspection			\$	-	\$ -	\$	-	
	Bridge Program		Pioneer Valley		Bridge Inspection			\$	-	\$ -	\$	-	
		1			Bridge Prog	ram / Inspec	tions subtotal ▶	\$	-	\$ -	\$	-	■ Funding Split Varies by Funding Source
	0"0 1												
ridge Program /		I		Т	SHEFFIELD- BRIDGE REPLACEMENT, S-10-015,			T		7	_		
	Bridge Program	TBA	Berkshire Region		KELSEY ROAD OVER SCHENOB BROOK,	1	STP-BR-OFF	\$	1,805,424	\$ 1,444,339	\$	361,085	
	Bridge Program	TDA	Dadiahira Danisa		BECKET- BRIDGE REPLACEMENT, B-03-045,	1	CTD DD OFF	s	2,040,672	\$ 1,632,538	•	408,134	
	Bridge Program	IDA	Berkshire Region	BECKET	QUARRY ROAD OVER CUSHMAN BROOK	ı	STP-BR-OFF	Þ	2,040,672	\$ 1,032,538	ф	408,134	
	Bridge Program	TBA	Berkshire Region	ALFORD	ALFORD- BRIDGE REPLACEMENT, A-06-004,	1	STP-BR-OFF	\$	1,873,632	\$ 1,498,906	\$	374,726	
				NEW	WEST ROAD OVER SCRIBNER BROOK NEW MARLOBOROUGH- BRIDGE			-			-		
	Bridge Program	TBA	Berkshire Region		REPLACEMENT, N-08-020, KEYES HILL ROAD	1	STP-BR-OFF	s	2,902,900	\$ 2,322,320	s	580,580	
				GH	OVER UMPACHENE RIVER			1	_,,	-,,	T	,	
					WILLIAMSTOWN-BRIDGE REPLACEMENT, W-37-								
	Bridge Program	TBA	Berkshire Region	WILLIAMSTOWN	010, WEST MAIN STREET OVER HEMLOCK	1	STP-BR-OFF	\$	2,612,784	\$ 2,090,227	\$	522,557	
					BROOK MONTEREY- BRIDGE REPLACEMENET, M-29-			-			<u> </u>		
	Bridge Program	TBA	Berkshire Region	MONTEREY	001, CURTIS ROAD OVER KONKAPOT RIVER	1	STP-BR-OFF	\$	1,255,584	\$ 1,004,467	\$	251,117	
					GREAT BARRINGTON- BRIDGE REPLACEMENT,			1-			-		
	Bridge Program	TBA	Berkshire Region	GREAT BARRINGTON	G-11-006, COTTAGE STREET OVER	1	STP-BR-OFF	\$	5,143,440	\$ 4,114,752	\$	1,028,688	
				DAKKINGTON	HOUSATONIC RIVER						_		
	Bridge Program	TBA	Pioneer Valley	LUDLOW	LUDLOW- BRIDGE REPLACEMENT, L-16-026, PINEY LANE OVER BROAD BROOK	2	STP-BR-OFF	\$	598,560	\$ 478,848	\$	119,712	
					WORCESTER- SUPERSTRUCTURE			-			-		
	Bridge Program	тва	Central Mass	WORCESTER	REPLACEMENT, W-44-083, HARRISION STREET	3	STP-BR-OFF	\$	10,568,180	\$ 8,454,544	\$	2,113,636	
					OVER I-290			Ľ		-, -, -, -	ľ	, -,	
					WORCESTER- SUPERSTRUCTURE								
	Bridge Program	TBA	Central Mass	WORCESTER	REPLACEMENT, W-44-093, LAUREL STREET	3	STP-BR-OFF	\$	5,467,811	\$ 4,374,249	\$	1,093,562	
			-		OVER I-290 HUBBARDSTON-BRIDGE REPLACEMENT, H-24-			-			-		
	Bridge Program	TRA	Montachusett	HUBBARDSTO	003, WILLIIAMSVILE ROAD OVER BURNCHIRT	3	STP-BR-OFF	s	1,684,320	\$ 1,347,456	s	336.864	
	S.i.ago i rogiami			N	RIVER	"	J. BROIT	"	.,004,020	ψ .,547,400	<b>"</b>	230,004	

Statewide Project Listing \_\_\_\_\_\_\_107

### Pides Program (Po-System (MPC)    Bridge Program   To A	∠U∠J ▶Bridge Program / O	n-System (NHS)											
Bidge Program   TBA   Program   GROUP   Section Region   BOSTON   Section Region   BOSTON	- billuge Frogram / O	ysteili (NDS)				ATTLEBORO- SUPERSTRUCTURE							
Bidgle Program   696902   Bodde Region   COSTON   S-16-161   METER TOXABUT PARKINGA OFFIRM   S   METER N.   S   6,900.00   S   5,500.00   S   1,380.000		Bridge Program	ТВА		ATTLEBORO	REPLACEMENT, A-16-062, I 295 Ramp over ten mile river	5	NHPP-On	\$ 3,450,7	68 \$	2,760,614	\$ 690,154	
Bidge Program   TSA   Central Mass   OUILEY   DUDIES DIJERRATIFICHINE REPLACEMENT   3   NHPP-ON   5   5/44/98   5   7,785,77   5   1,346/399		Bridge Program	606902	Boston Region	BOSTON	B-16-181, WEST ROXBURY PARKWAY OVER	6	NHPP-On	\$ 6,900,0	00 \$	5,520,000	\$ 1,380,000	
MACHINEMIT No.		Bridge Program	ТВА	Central Mass	DUDLEY	DUDLEY- SUPERSTRUCTURE REPLACEMENT,	3	NHPP-On	\$ 9.744.6	96 S	7.795.757	\$ 1.948.939	
### AMANUMENT Nove Program   606726   Boston Region   006726   Boston Region   006726   Boston Region   006726   Boston Region   006825   Sudhassien   NEW BEDFORD   STATE STREET, MSC CONTRACT AND LEGAL   STATE													
MRNDMENTANNe Project (FRCA02022)  **Bridge Program**  **Bridge Pr		Bridge Program	606728	Boston Region	BOSTON	BOWKER OVERPASS OVER STORROW DRIVE	6	NHPP-On	\$ 24,009,7	00 \$	19,207,760	\$ 4,801,940	
Project   Program   Color		Bridge Program	606527		NEW BEDFORD	REPLACEMENT, N-06-020, I-195 (EB & WB) RAMP C & F OVER ST 18, COUNTY STREET, STATE STREET, MASS COASTAL RAILROAD, PURCHASE STREET, WELD STREET, INCLUDES REPLACING N-06-046, I-195 (EB)	5	NHPP-On	\$ 16,733,3	14 \$	13,386,651	\$ 3,346,663	AC Year 1 of 5, Total Cost \$117,077,491
Project   Proj	Project - (FROM 2021)	Bridge Program	605843	Berkshire Region	NORTH ADAMS	016, ROUTE 2 OVER THE HOOSIC RIVER	1	NHPP-On	\$ 18,315,7	04 \$	14,652,563	\$ 3,663,141	
Bridge Program   608983   Promer Valley   Program   Promer Valley   Program   Promer Valley   Program   Promer Valley   Program   Pr		Bridge Program	608848	Pioneer Valley	SPRINGFIELD	016, ARMORY STREET OVER CSX MAINLINE	2	NHPP-On	\$ 5,723,4	40 \$	4,578,752	\$ 1,144,688	
Bridge Program   Bidde Program   Bidde Program   Bridge Program   Bridg		Bridge Program	608853	Pioneer Valley	SPRINGFIELD	026, ARMORY STREET OVER CSX	2	NHPP-On	\$ 3,948,6	40 \$	3,158,912	\$ 789,728	
Bridge Program   604952   Boston Region   L'NN   0168-05-0908, ROUTE 107 OVER THE SAUGUS   4   NHPP-On   \$ 5,907,596   \$ 4,726,076   \$ 1,181,519   AC Year 5 of 5, Total Cost \$74,471,140   RNER (KABELDENG BLYBRIDGE)   C   NHPP-On   \$ 11,378,353   \$ 9,102,682   \$ 2,275,671   AC Year 4 of 5, Total Cost \$56,891,767		Bridge Program	605306	Merrimack Valley	HAVERHILL		4	NHPP-On	\$ 15,892,0	36 \$	12,713,629	\$ 3,178,407	AC Year 6 of 6, Total Cost \$118,786,388
Bridge Program   606552   Pioneer Vailley   N   N-19-059, 1-19-		Bridge Program	604952	Boston Region	LYNN	016=S-05-008, ROUTE 107 OVER THE SAUGUS	4	NHPP-On	\$ 5,907,5	95 \$	4,726,076	\$ 1,181,519	AC Year 5 of 5, Total Cost \$74,471,140
Bridge Program   Non-NHS    Boston Region   Boston   B		Bridge Program	606552	Pioneer Valley	NORTHAMPTO N	N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-	2	NHPP-On	\$ 11,378,3	53 \$	9,102,682	\$ 2,275,671	AC Year 4 of 5, Total Cost \$56,891,767
Bridge Program   TBA   Boston Region   BOSTON   BOSTON   B-16-107, CATEBRATY STREET OVER   6   NHPP-Off   \$ 4,678,280   \$ 3,742,624   \$ 935,656		-				Bridge Program /	On-System (N	lHS) subtotal ▶	\$ 122,004,2	46 \$	97,603,397	\$ 24,400,849	■ Funding Split Varies by Funding Source
Bridge Program   TBA   Boston Region   BOSTON   B-16-107, CANTERBURY STREET OVER   6   NHPP-Off   \$ 4,678,280 \$ 3,742,624 \$ 935,656	► Bridge Program / O	n-System (Non-N	NHS)	·	<del></del>								
Bridge Program   804005   Franklin Region   CONWAY   NORTH POLAND ROAD OVER POLAND BROOK   1   NHPP-Off   \$ 4,139,808   \$ 3,311,846   \$ 827,962		Bridge Program	TBA	Boston Region	BOSTON	B-16-107, CANTERBURY STREET OVER	6	NHPP-Off	\$ 4,678,2	80 \$	3,742,624	\$ 935,656	
Bridge Program   TBA   Pioneer Valley   Multiple   Mu		Bridge Program	604005	Franklin Region	CONWAY		1	NHPP-Off	\$ 4,139,8	08 \$	3,311,846	\$ 827,962	
Bridge Program   TBA   Pioneer Valley   Multiple   DISTRICT 1 - SYSTEMATIC BRIDGE   MAINTENANCE AT VARIOUS LOCATIONS (2023)   1 NHPP-Off   \$ 522,200   \$ 417,760   \$ 104,440			L	L		Bridge Program / On-S	l System (Non-N	lHS) subtotal ▶	\$ 8,818,08	38 \$	7,054,470	\$ 1,763,618	■ 80% Federal + 20% Non-Federal
Bridge Program   BA	► Bridge Program / Sy	stematic Maint	enance				·						
Bridge Program   609023 Proneer Valley   Multiple   MAINTENANCE AT VARIOUS LOCATIONS (2023)   2   NFIPP-Off   \$ 1,285,080   \$ 1,232,160   \$ 308,040		Bridge Program	ТВА	Pioneer Valley	Multiple	MAINTENANCE AT VARIOUS LOCATIONS (2023)	1	NHPP-Off	\$ 522,2	00 \$	417,760	\$ 104,440	
Bridge Program   609040   Pioneer Valley   Multiple   MAINTENANCE AT VARIOUS LOCATIONS   3   NHPP-Off   \$ 1,285,080   \$ 1,028,064   \$ 257,016		Bridge Program	609023	Pioneer Valley	Multiple	MAINTENANCE AT VARIOUS LOCATIONS (2023)	2	NHPP-Off	\$ 1,540,2	00 \$	1,232,160	\$ 308,040	
Bridge Program   BA		Bridge Program	609040	Pioneer Valley	Multiple	MAINTENANCE AT VARIOUS LOCATIONS	3	NHPP-Off	\$ 1,285,0	80 \$	1,028,064	\$ 257,016	
Bridge Program   609037   Proneer Valley   Multiple   PRESERVATION ALONG THE I-195 CORRIDOR   5   NHPP-On   \$ 1,413,595   \$ 1,130,876   \$ 282,719	***************************************	Bridge Program	ТВА	Pioneer Valley	Multiple	PRESERVATION	4	NHPP-Off	\$ 1,983,7	00 \$	1,586,960	\$ 396,740	
Bridge Program   608609   Boston Region   Solution Region   Solution Region   NewTON-WESTWOOD   NewT		Bridge Program	609037	Pioneer Valley	Multiple	PRESERVATION ALONG THE I-195 CORRIDOR	5	NHPP-On	\$ 1,413,5	95 \$	1,130,876	\$ 282,719	
Bridge Program / Systematic Maintenance subtotal ▶ \$ 8,887,631 \$ 7,110,105 \$ 1,777,526 ◀ Funding Spit Varies by Funding Sour		Bridge Program	608609	Boston Region		SUPERSTRUCTURE CLEANING (FULL REMOVAL) AND PAINTING OF 2 BRIDGES: N-12- 056 & W-31-006							
						Bridge Program / Systen	natic Mainten	ance subtotal 🕨	\$ 8,887,63	31 \$	7,110,105	\$ 1,777,526	■ Funding Split Varies by Funding Source

	Interstate Pavement													
				3										
	avellielli		Pioneer Valley		Interstate Pavement			\$	-	\$	-	\$	-	
			·····	***************************************	Inst	terstate Pave	ment subtotal ▶	\$	-	\$	-	\$	-	■ 90% Federal + 10% Non-Federal
► Non-Interstate Paveme	ent													
N	Non-Interstate		Pioneer Valley		Non-Interstate Pavement			s	_	s	_	\$	_	
	Pavement		l lolloor valley	1		L		Ļ						
					Non-In	terstate Pave	ment subtotal <b>&gt;</b>	\$	-	\$	-	\$	-	◀ 80% Federal + 20% Non-Federal
▶ Roadway Improveme			,			·	·							·
	Roadway Improvements		Pioneer Valley		Roadway Improvements			\$	-	\$	-	\$	-	
	improvements [			1	Roads	way Improvem	i nents subtotal ▶	\$	-	\$	-	\$		■ 80% Federal + 20% Non-Federal
► Safety Improvements					rtoudi	way improven	icito subtotai F	ΙΨ		Ψ		Ψ		1 4 0070 1 Cuciui - 2070 11011-1 Cuciui
> Safety improvements	S			Y		T	1	1						<b>*</b>
	Safety Improvements	608841	Statewide	Multiple	STATEWIDE-VARIOUS INTERSECTION STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2023)	Multiple	HSIP	\$	5,791,753	\$	5,212,578	\$ 5	79,175	\$ 20,837,491
	Safety Improvements	609053	Boston Region	Multiple	CANTON-DEDHAM-NORWOOD- HIGHWAY LIGHTING IMPROVEMENTS AT 193 & 195/128	6	NHPP	\$	4,000,000	\$	3,600,000	\$ 4	00,000	
	Safety Improvements	609062	Pioneer Valley	Multiple	WORCESTER- LEOMINSTER- GUIDE AND TRAFFIC SIGN REPLACEMENT ON INTERSTATE 190	3	HSIP	\$	3,574,130	\$	3,216,717	\$ 3	57,413	
	Safety Improvements	609097	Pioneer Valley	Multiple	STATEWIDE-VARIOUS INTERSECTION STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2023)	Multiple	HSIP	\$	4,500,000	\$	4,050,000	\$ 4	50,000	
	Safety Improvements	609056	Pioneer Valley	Multiple	HOLLAND TO STURBRIDGE- GUIDE AND TRAFFIC SIGN REPLACEMENT ON INTERSTATE 84	3	HSIP	\$	517,904	\$	466,114	\$	51,790	
	Safety Improvements	609058	Boston Region	Multiple	PEABODY TO GLOUCESTER- GUIDE AND TRAFFIC SIGN REPLACEMENT ON ROUTE 128	4	HSIP	\$	1,960,848	\$	1,764,764	\$ 1	96,085	
	Safety Improvements	609060	Boston Region	Multiple	LYNNFIELD- PEABODY- DANVERS- GUIDE AND TRAFFIC SIGN REPLACEMENT ON I-95/128 (TASK 'A' INTERCHANGE)	4	HSIP	\$	492,862	\$	443,576	\$	49,286	
	•			***************************************	Sat	fety Improven	nents subtotal <b>&gt;</b>	\$	20,837,498	\$ 1	8,753,748	\$ 2,08	3,750	■ Funding Split Varies by Funding Source
► Section 2B / State Price	ioritized Modern	ization Proje	cts											
► ADA Retrofits														
	ADA Retrofits		Pioneer Valley		ADA Retrofits			\$	-	\$	-	\$	-	
				1	I.	1 4545	rofits subtotal ▶	+	-		-			■ 80% Federal + 20% Non-Federal

tersection Impro	/ements												
	Intersection Improvements	608052	Boston Region	Norwood	NORWOOD- INTERSECTION & SIGNAL IMPROVEMENTS AT US 1 (PROVIDENCE HIGHWAY) & MORSE STREET	5	HSIP	\$	974,815	\$	877,334	\$ 97,482	
	Intersection Improvements	608563	SE Mass	Swansea	SWANSEA- IMPROVEMENTS ON ROUTE 6 (GRAND ARMY OF THE REPUBLIC HIGHWAY) AT GARDNERS NECK ROAD	5	HSIP	\$	2,688,000	\$ 2	,419,200	\$ 268,800	
	Intersection Improvements	608754	Berkshire	Dalton	DALTON- INTERSECTION IMPROVEMENTS AT ROUTES 8 & 9 (MAIN ST) AT SOUTH ST & WEST HOUSATONIC ST	1	HSIP	\$	1,500,000	\$ 1.	,350,000	\$ 150,000	)
	Intersection Improvements	609094	Pioneer Valley	Multiple	DISTRICT 3- INTERSECTION IMPROVEMENTS TO TOP CRASH LOCATION (HSIP 2022 PLACEHOLDER)	3	HSIP	\$	450,000	\$	405,000	\$ 45,000	
	Intersection Improvements	609095	Pioneer Valley	Multiple	DISTRICT 4- INTERSECTION IMPROVEMENTS TO TOP CRASH LOCATION (HSIP 2022 PLACEHOLDER)	4	HSIP	\$	450,000	\$	405,000	\$ 45,000	
	Intersection Improvements	609055	Pioneer Valley	Multiple	DISTRICT 5- INTERSECTION IMPROVEMENTS TO TOP CRASH LOCATION (HSIP 2022 PLACEHOLDER)	5	HSIP	\$	450,000	\$	405,000	\$ 45,000	)
	Intersection Improvements	608564	Boston Region	Watertown	WATERTOWN- INTERSECTION IMPROVEMENTS AT ROUTE 16 AND GALEN STREET	6	HSIP	\$	2,630,000	\$ 2	,367,000	\$ 263,000	
	Intersection Improvements	608566	Boston Region	Marlborough	MARLBOROUGH- IMPROVEMENTS AT ROUTE 20 (EAST MAIN STREET) AT CURTIS AVENUE	3	HSIP	\$	5,200,000	\$ 2	,505,600	\$ 278,400	)
	Intersection Improvements	609097	Pioneer Valley	Multiple	STATEWIDE-VARIOUS INTERSECTION STRATEGIES TO ADDRESS SHSP - TO BE DETERMINED (2023)	Multiple	HSIP	\$	450,000	\$	405,000	\$ 45,000	
	Intersection Improvements	608774	Northern Middlesex	Tewksbury	TEWKSBURY – ROUTE 38 INTERSECTION IMPROVEMENTS FROM LOWELL LINE TO PIKE STREET/ASTLE STREET	4	HSIP	\$	3,005,529	\$ 2	,704,976	\$ 300,550	в
	Intersection Improvements	609093	Pioneer Valley	Multiple	DISTRICT 2- INTERSECTION IMPROVEMENTS TO TOP CRASH LOCATION (HSIP 2022 PLACEHOLDER)	2	HSIP	\$	450,000	\$	405,000	\$ 45,000	
	Intersection Improvements	609096	Statewide	Multiple	DISTRICT 6- INTERSECTION IMPROVEMENTS TO TOP CRASH LOCATION (HSIP 2022	6	HSIP	\$	450,000	\$	405,000	\$ 45,000	)
					Intersect	ion Improvem	nents subtotal <b>&gt;</b>	\$	18,698,344	\$ 14,	654,110	\$ 1,628,234	■ Funding Split Varies by Funding Sound
₃lligent Transpo	Intelligent			1				_					
	Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$	-	\$ -	
	Intelligent Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$	-	\$ -	
	Intelligent Transportation Systems		Pioneer Valley		Intelligent Transportation Systems			\$	-	\$	-	\$ -	
					Intelligent Trans	portation Sy	stem subtotal 🕨	\$	-	\$	-	\$ -	■ 80% Federal + 20% Non-Federal
adway Reconsti				1				1	***************************************			,	
	Roadway Reconstruction		Pioneer Valley	-	Roadway Reconstruction			\$	-	\$	-	\$ -	
	Roadway Reconstruction		Pioneer Valley		Roadway Reconstruction			\$	-	\$	-	\$ -	
	Roadway		Pioneer Valley		Roadway Reconstruction		WIROGONO	\$	-	\$	- [	\$ -	
	Reconstruction Roadway						-	+				<b>,</b>	

► Section 2C / State I	Prioritized Expar	nsion Projects	:											
► Bicycles and Pedes	strians													
	Bicycles and Pedestrians	607823	Pioneer Valley	Multiple	SOUTHAMPTON- GREENWAY RAIL TRAIL CONSTRUCTION, FROM COLEMAN ROAD TO ROUTE 10 (3.5 MILES)	2	CMAQ	\$	7,053,638	\$ 5,	642,910	\$	1,410,728	
***************************************		S			Bicycle	s and Pedest	trians subtotal 🕨	\$	7,053,638	\$ 5,6	42,910	\$	1,410,728	■ 80% Federal + 20% Non-Federal
► Capacity														
-	Capacity		Pioneer Valley		Capacity			\$		\$	-		-	
						Cap	oacity subtotal ►	\$	-	\$	-	\$	-	■ Funding Split Varies by Funding Source
► Section 3 / Plannin	g / Adjustments /	Pass-through	ıs											
▶ Planning / Adjustm	ents / Pass-throu	ahs												
	1	gc	Pioneer Valley	1	ABP GANS Repayment	Multiple		\$	-	S	-	\$	-	
			Pioneer Valley	1	ABP GANS Repayment	Multiple		\$	-		-	\$	-	
			Pioneer Valley	1	Award adjustments, change orders, etc.	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		Award adjustments, change orders, etc.	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		Metropolitan Planning	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		Metropolitan Planning	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		State Planning and Research Work Program I, (SPR I), Planning	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		State Planning and Research Work Program II, (SPR II), Research	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		Railroad Crossings	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		Railroad Crossings	Multiple		\$	-	\$	-	\$	-	
			Pioneer Valley		Recreational Trails	Multiple		\$	-	\$	-	\$	-	
					Oth	er Statewide I	ltems subtotal ▶	\$	-	\$	-	\$	-	◀ Funding Split Varies by Funding Source
► Section 4 / Non-Fed	derally Aided Pro	ojects												
► Non-Federally Aide	d Projects													
<del></del>	Non Federal Aid		Pioneer Valley		Non-Federal Aid			\$	-			\$	-	
						Non-Feder	ral Aid subtotal▶	\$	-			\$	-	◀100% Non-Federal
0000 0								TIP :	Section 1 -	TIP Se	ction 4:	Tota	al of All	
2023 Summ	ary							3: ▼		▼			jects ▼	
					<u>.                                      </u>		Total ▶	\$ 21	19.836.752	\$	-	\$ 2	19.836.752	■ Total Spending in Region
						F	Federal Funds >							▼ Total Federal Spending in Region
							Federal Funds ▶			\$	_			■ Total Non-Federal Spending in Region
						140111	ouo.u unuo P	1 4	.0,200,000	Ψ.		1 4	.0,200,000	1 Total Tronglon

701 CMR 7.00 Use of Road Flaggers and Police Details on Public Works Projects / 701 CMR 7.00 (the Regulation) was promulgated and became law on October 3, 2008. Under this Regulation, the CMR is applicable to any Public works Project that is performed within the limits of, or that impact traffic on, any Public Road. The Municipal Limitation referenced in this Regulation is applicable only to projects where the Municipality is the Awarding Authority. For all projects contained in the TP, the Commonwealth is the Awarding Authority. Therefore, all projects must be considered and implemented in accordance with 701 CMR 7.00 and the Road Flagger and Police Detail Guidelines. By placing a project on the TP, the Municipality is applicable to its project and design and construction will be fully compliant with this Regulation. This information, and additional information relative to guidance and implementation of the Regulation can be found at the following link on the MassDOT Highway Division we ebsite: http://www.massdot.state.ma.us/Highway/flaggers/main.aspx

# **VII. PROJECT IMPLEMENTATION**

The TIP is also used as a management tool for monitoring the progress and implementation of the RTP and previous TIP's. The award status of FFY 2017-2018 TIP projects are identified in table 22.

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**Table 22 Project Implementation** 

Year	Highway Project Description	SID	Funding	<b>Programmed</b>	Status
2017	PIONEER VALLEY REGIONAL BICYCLE SHARE (PHASE 1)	PV001	CMAQ	\$ 1,343,971	Construction
2017	HOLYOKE- IMPROVEMENTS TO LOWER WESTFIELD ROAD ON I-91 (INTERCHANGE 15)	606903	STP	\$ 1,700,004	Construction
2017	AMHERST- HADLEY- SIDEWALK & WHEELCHAIR RAMP CONSTRUCTION ON ROUTE 9	608023	STP, TAP	\$ 1,204,050	Construction
2017	SOUTHWICK- RECONSTRUCTION CONGAMOND ROAD (ROUTE 168), FROM COLLEGE HIGHWAY & ENDS 250 FEET SHORT OF STATE LINE (1.2 MILES)	604033	STP, CMAQ	\$ 7,172,979	Advertised
2017	LUDLOW- RECONSTRUCTION OF CENTER STREET (ROUTE 21), FROM 35' WEST OF BEACHSIDE DRIVE WESTERLY TO GAS LINE BESIDE MTA OVERPASS (3,500 FEET)	605011	STP, HSIP, TAP	\$ 5,845,350	Advertised
2017	GOSHEN- RESURFACING & RELATED WORK ON WEST STREET	605150	STP	\$ 3,800,000	Advertised
2017	AGAWAM- WEST SPRINGFIELD- BRIDGE REPLACEMENT, A-05- 002=W-21-014, ROUTE 147 OVER THE WESTFIELD RIVER & INTERSECTION & SIGNAL IMPROVEMENTS @ 3 LOCATIONS	605384	NHPP	\$ 23,173,893	Advertised
2017	AMHERST- BRIDGE REPLACEMENT, A-08-008, MILL STREET OVER MILL RIVER	607528	NHPP	\$ 2,075,400	Construction
2017	CHESTERFIELD- BRIDGE REPLACEMENT, C-12-009, IRELAND STREET OVER WEST BRANCH BRONSON BROOK	607549	NHPP	\$ 3,341,040	Construction
2017	CHICOPEE- SPRINGFIELD- INTERSTATE MAINTENANCE & RELATED WORK ON I-291	608211	IM	\$ 4,118,400	Construction
2017	AGAWAM- CHICOPEE- HOLYOKE- WEST SPRINGFIELD- STORMWATER IMPROVEMENTS ALONG I-91, I-391, ROUTE 57 AND ROUTE 5	608192	IM	\$ 1,276,062	Construction

Year	Highway Project Description	SID	Status	Programmed	Status
2018	AGAWAM- INTERSECTION IMPROVEMENTS AT ROUTE 187 & ROUTE 57	604203	STP	\$ 3,288,000	Not Advertised
2018	NORTHAMPTON- IMPROVEMENTS ON I-91 INTERCHANGE 19 AT ROUTE 9 AND DAMON ROAD	604597	NFP	\$ 7,438,490	Not Advertised
2018	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	603449	STP	\$ 3,630,245	Not Advertised
2018	SOUTHAMPTON- RECONSTRUCTION OF GLENDALE ROAD (PHASE II) FROM COLLEGE HIGHWAY (RT 10) NORTHWESTERLY TO POMEROY MEADOW RD (3,801 FEET)	604738	STP	\$ 2,710,700	Not Advertised
2018	HOLYOKE- RESURFACING & RELATED WORK ON HERITAGE STREET, FRONT STREET & DWIGHT STREET FROM MAPLE ST TO THE 1ST LEVEL CANAL (.54 MILES)	607256	STP	\$ 2,283,489	Not Advertised
2018	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	604962	STP	\$ 1,409,592	Not Advertised
2018	AMHERST- HADLEY- NORTHAMPTON- TRANSIT SIGNAL PRIORITY UPGRADES AT VARIOUS LOCATIONS	608786	TAP	\$ 792,630	Not Advertised
2018	AMHERST- HADLEY- NORTHAMPTON- TRANSIT SIGNAL PRIORITY UPGRADES AT VARIOUS LOCATIONS	608786	STP	\$ 407,369	Not Advertised
2018	PVTA P21 Express Service Between Union Station in Springfield and the Holyoke Transportation Center	PV0005	CMAQ	\$ 500,000	Not Advertised
2018	WESTFIELD- ROUTE 20 ACCESS IMPROVEMENTS ON COURT STREET & WESTERN AVENUE, FROM LLEWELLYN DRIVE EASTERLY TO LLOYDS HILL ROAD (PHASE I)	603449	HPP	\$ 2,503,688	Not Advertised
2018	NORTHAMPTON- BRIDGE RECONSTRUCTION, N-19-059, I-91 OVER US 5/BMRR & N-19-060, I-91 OVER HOCKANUM ROAD	606552	NHPP-On	\$ 10,000,000	Not Advertised
2018	HOLYOKE- BRIDGE REPLACEMENT, H-21-018, LYMAN STREET OVER FIRST LEVEL CANAL	600936	NHPP-On	\$ 11,762,603	Not Advertised

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2018	PALMER - BRIDGE REHABIILITATION, P-01-005, MAIN STREET OVER QUABOAG RIVER	608870	NHPP-Off	\$ 3,000,000	Not Advertised
2018	CUMMINGTON- BRIDGE MAINTENANCE, C-21-025, ROUTE 9 OVER THE WESTFIELD RIVER	607939	NHPP-On	\$ 312,000	Not Advertised
2018	HOLYOKE- STRUCTURAL STEEL BEAM CLEANING AND PAINTING, H- 21-048, I-91 NB & SB OVER WESTFIELD ROAD	607959	NHPP-On	\$ 1,564,622	Not Advertised
2018	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW UNDERPASS S-24-044	607589	TAP	\$ 6,640,845	Not Advertised
2018	SPRINGFIELD- NORTH END PEDESTRIAN PATH CONSTRUCTION (UNDER THE CONNECTICUT RIVER RAILROAD), BETWEEN PLAINFIELD STREET AND BIRNIE AVENUE, INCLUDES CONSTRUCTION OF NEW UNDERPASS S-24-044	607589	CMAQ	\$ 421,266	Not Advertised

# **VIII. Air Quality Conformity Information**

Since most all of Massachusetts (with limited exceptions) was designated on 5/21/12 by the United States Environmental Protection Agency as "unclassifiable/attainment" for the latest ozone standard, a conformity determination for the Pioneer Valley 2019 - 2023 TIP is not required for ozone. Conformity determination is however required for carbon monoxide. Further details and background information are provided below:

### **Carbon Monoxide**

A new transportation conformity determinations for carbon monoxide is required for the 2019 - 2023 TIP in Central Massachusetts MPO (Worcester); Pioneer Valley MPO (Springfield); Boston MPO (Waltham and Boston Area); Northern Middlesex MPO (Lowell).

The Boston Carbon Monoxide Area (nine communities - Boston, Cambridge, Chelsea, Everett, Malden, Medford, Quincy, Revere, and Somerville) has a maintenance plan in place with a SIP-Approved 2010 motor vehicle carbon monoxide emission budget in place requiring a regional emission analysis for any carbon monoxide conformity determination of the Boston CO Area.

Limited Maintenance Plans are in place for Worcester; Springfield; Waltham and Lowell, hence regional emissions analyses are assumed to satisfy the budget test in these areas.

### **Ozone**

As of July 20, 2013, Dukes County, Massachusetts [Dukes County Wampanoag Tribe of Gay Head (Aquinnah) of Massachusetts] is nonattainment, classification marginal, for the 2008 8-Hour Ozone National Ambient Air Quality Standard (NAAQS), also known as the 2008 ozone standard. However, Interagency Transportation Conformity Consultation has determined Dukes County, Massachusetts to be an isolated rural nonattainment area for the 2008 8-hour ozone standard. An ozone conformity determination is required when the isolated rural area (Dukes County) includes non-exempt projects in its STIP/TIP and TP. See 40 CFR Section 109(g) for conformity in isolated rural nonattainment and maintenance areas.

#### Introduction

The 1990 Clean Air Act Amendments (CAAA) require metropolitan planning organizations within nonattainment and maintenance areas to perform air quality conformity determinations prior to the approval of Long-Range Transportation Plans (LRTPs) and Transportation Improvement Programs (TIPs), and at such other times as required by regulation. A nonattainment area is one that the U.S. Environmental Protection Agency (EPA) has designated as not meeting certain air quality standards. A maintenance area is a nonattainment area that now meets the standards and has been re-designated as maintaining the standard. A conformity determination is a demonstration that plans, programs, and projects are consistent with the State Implementation Plan (SIP) for attaining the air quality standards. The CAAA requirement to perform a conformity determination ensures that federal approval and funding go to transportation activities that are consistent with air quality goals.

The entire Commonwealth of Massachusetts was previously classified as nonattainment for ozone, and was divided into two nonattainment areas. The Eastern Massachusetts ozone nonattainment area included Barnstable, Bristol, Dukes, Essex, Middlesex, Nantucket, Norfolk, Plymouth, Suffolk, and Worcester counties. Berkshire, Franklin, Hampden, and Hampshire counties comprised the Western Massachusetts ozone nonattainment area. With these classifications, the 1990 Clean Air Act Amendments (CAAA)

required the Commonwealth to reduce its emissions of volatile organic compounds (VOCs) and nitrogen oxides (NOx), the two major precursors to ozone formation to achieve attainment of the ozone standard.

As of April 22, 2002, the city of Springfield was re-designated as being in attainment for carbon monoxide (CO) with an EPA-approved limited maintenance plan. In areas with approved limited maintenance plans, federal actions requiring conformity determinations under the transportation conformity rule are considered to satisfy the "budget test" (as budgets are treated as not constraining in these areas for the length of the initial maintenance period). Any future required "project level" conformity determinations for projects located within this community will continue to use a "hot-spot" analysis to assure that any new transportation projects in this CO attainment area do not cause or contribute to carbon monoxide non-attainment.

# Legislative and Regulatory Background

The 1970 Clean Air Act defined a one-hour national ambient air quality standard (NAAQS) for ground-level ozone. The 1990 CAAA further classified degrees of nonattainment of the one-hour standard based on the severity of the monitored levels of the pollutant. The entire commonwealth of Massachusetts was classified as being in serious nonattainment for the one-hour ozone standard, with a required attainment date of 1999. The attainment date was later extended, first to 2003 and a second time to 2007.

In 1997, the EPA proposed a new, eight-hour ozone standard that replaced the one- hour standard, effective June 15, 2005. Scientific information had shown that ozone could affect human health at lower levels, and over longer exposure times than one hour. The new standard was challenged in court, and after a lengthy legal battle, the courts upheld it. It was finalized in June 2004. The eight-hour standard is 0.08 parts per million, averaged over eight hours and not to be exceeded more than once per year. Nonattainment areas were again further classified based on the severity of the eight-hour values. Massachusetts as a whole was classified as being in moderate nonattainment for the eight-hour standard, and was separated into two nonattainment areas—Eastern Massachusetts and Western Massachusetts.

In March 2008, EPA published revisions to the eight-hour ozone NAAQS establishing a level of 0.075 ppm, (March 27, 2008; 73 FR 16483). In 2009, EPA announced it would reconsider this standard because it fell outside of the range recommended by the Clean Air Scientific Advisory Committee. However, EPA did not take final action on the reconsideration so the standard would remain at 0.075 ppm.

After reviewing data from Massachusetts monitoring stations, EPA sent a letter on December 16, 2011 proposing that only Dukes County would be designated as nonattainment for the new proposed 0.075 ozone standard. Massachusetts concurred with these findings.

On May 21, 2012, (77 FR 30088), the final rule was published in the Federal Register, defining the 2008 NAAQS at 0.075 ppm, the standard that was promulgated in March 2008. A second rule published on May 21, 2012 (77 FR 30160), revoked the 1997 ozone NAAQS to occur one year after the July 20, 2012 effective date of the 2008 NAAQS.

Also on May 21, 2012, the air quality designations areas for the 2008 NAAQS were published in the Federal Register. In this Federal Register, the only area in Massachusetts that was designated as nonattainment is Dukes County. All other Massachusetts counties were classified as unclassifiable/attainment. Therefore, conformity for ozone in the Pioneer Valley MPO does not require conformity under the current 2008 standard and the MPO does not need to perform a conformity determination for ozone on the program.

# IX. Greenhouse Gas Monitoring and Evaluation

#### Introduction

This section summarizes the greenhouse gas (GHG) impacts that are anticipated to result from the projects that are included in this FFY 2019 – 2022 Transportation Improvement Program (TIP). It includes a summary of the state laws and policies that call for reducing greenhouse gas in order to mitigate global climate change, actions that are being to respond to these state laws and policies, the role of regional planning and TIP development in reducing GHG emission and tracking these reductions, and the projected GHG emission impacts from the projects programmed in the TIP.

### **State Policy Context**

The Global Warming Solutions Act (GWSA), which was signed into law in August 2008, makes Massachusetts a leader in setting aggressive and enforceable GHG reduction targets, and implementing policies and initiatives to achieve these targets. In keeping with the law, on December 29, 2010 the Massachusetts Executive Office of Energy and Environmental Affairs (EOEEA), in consultation with other state agencies and the public, released the Massachusetts *Clean Energy and Climate Plan for 2020*. In December 2014 the Department of Environmental Protection issued new regulations that require Metropolitan Planning Organizations to quantify impacts from project investments, track progress towards reductions, and consider impacts in the prioritization of GHG impacts from project investments. The targets for overall statewide GHG emissions are:



### **GreenDOT Policy**

The transportation sector is the single largest emitter of greenhouse gases, accounting for over a third of GHG emissions, and therefore the transportation sector is a key focus of the *Clean Energy and Climate Plan*. MassDOT's approach to supporting the implementation of the plan is set forth in its GreenDOT Policy Directive, a comprehensive sustainability initiative that sets three principal objectives:

- Reduce greenhouse gas (GHG) emissions. MassDOT will achieve this by taking GHG emissions into account in all of its responsibilities, from strategic planning to project design and construction and system operations.
- Promote the healthy transportation modes of walking, bicycling, and public transit. MassDOT will achieve this by pursuing multi-modal, "complete streets" design standards; providing choice in transportation services; and by working with MPOs and other partners to prioritize and program a balance of projects that serve drivers, pedestrians, bicyclists, and public transit riders.
- To support smart growth development. MassDOT will achieve this by working with MPOs and other partners to make transportation investments that enable denser, smart growth development patterns that support reduced GHG emissions.

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### **GreenDOT Policy and Metropolitan Planning Organizations**

The Commonwealth's thirteen metropolitan planning organizations (MPOs) are integrally involved in helping to achieve the GreenDOT goals and supporting the GHG reductions mandated under the GWSA. The MPOs are most directly involved in helping to achieve the GHG emissions reductions under the second goal – to promote healthy transportation modes through prioritizing and programming an appropriate balance of roadway, transit, bicycle and pedestrian investments – and assist in the third goal by supporting smart growth development patterns through the creation of a balanced multi-modal transportation system. This will be realized through the transportation goals and policies espoused in the 2017 Regional Transportation Plans (RTPs), the major projects planned in the RTPs, and the mix of new transportation projects that are programmed and implemented through the TIPs. The GHG tracking and evaluation processes enable the MPOs to identify the anticipated GHG impacts of the planned and programmed projects, and also to use GHG impacts as a criterion in prioritizing transportation projects.

### **Regional GHG Tracking and Evaluation in RTPs**

MassDOT coordinated with MPOs and regional planning agency (RPA) staffs on the implementation of GHG tracking and evaluation in development of each MPO's 2035 RTPs, which were adopted in September 2011. This collaboration has continued for the MPO's 2040 RTPs and 2019-22 TIPs.

Working together, MassDOT and the MPOs have attained the following milestones:

Modeling and long-range statewide projections for GHG emissions resulting from the transportation sector. Using the Boston MPO's regional model and the statewide travel demand model for the remainder of the state, GHG emissions were projected for 2020 no-build and build conditions, and for 2040 no-build and build conditions.

All of the MPOs included these GHG emission projections in their RTPs, along with a discussion of climate change and a statement of MPO support for reducing GHG emissions as a regional goal.

### **Project-Level GHG Tracking and Evaluation in the Transportation Improvement Program**

It is also important to monitor and evaluate the GHG impacts of the transportation projects that are programmed in the MPO Transportation Improvement Programs (TIP). The TIP includes both the larger, regionally-significant projects from the RTPs, which have already had their aggregate GHG impacts calculated and reported in the RTP, as well as smaller projects that are not included in the RTP but that may nevertheless have impacts on GHG emissions. The principal objective of this tracking is to enable the MPOs to evaluate expected GHG impacts of different projects and to use this information as a criterion for prioritizing and programming projects in future TIPs.

In order to monitor and evaluate the GHG impacts of TIP projects, MassDOT and the MPOs have developed the following approach for identifying anticipated GHG impacts and quantifying GHG impacts of projects, when appropriate, through the TIP. Different types of projects will have different anticipated GHG emissions impacts. The different project categories are outlined on the next two pages with this region's project tracking sheet on the third page.

## **Calculation of GHG Impacts for TIP Projects**

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The Office of Transportation Planning at MassDOT provided the spreadsheets that are used for determining Congestion Management and Air Quality Improvement (CMAQ) eligibility. These spreadsheets require the same inputs as the CMAQ calculations, and have been adapted to provide CO<sub>2</sub> impacts. The data and analysis required for these calculations is available from functional design reports that should be submitted for projects that would produce a measurable GHG impact.

### **Projects with Quantified Impacts**

RTP Projects - Major capacity expansion projects would be expected to have a significant impact on GHG emissions. However, these projects are included in the RTPs and analyzed using the statewide model or Boston regional model, which would reflect their GHG impacts. Therefore, no independent TIP calculations are required.

- Quantified Decrease in Emissions Projects that would be expected to produce a measurable decrease in emissions. The approach for calculating these impacts is described below. These projects should be categorized in the following manner:
- Quantified Decrease in Emissions from Traffic Operational Improvement An intersection reconstruction or signalization project that is projected to reduce delay and congestion.
- Quantified Decrease in Emissions from Pedestrian and Bicycle Infrastructure A shared-use path that would enable increased walking and biking and decreased vehicle-miles traveled (VMT).
- Quantified Decrease in Emissions from New/Additional Transit Service A bus or shuttle service that would enable increased transit ridership and decreased VMT
- Quantified Decrease in Emissions from a Park and Ride Lot A park-and-ride lot that would enable increased transit ridership/ increased ridesharing and decreased VMT
- Quantified Decrease in Emissions from Bus Replacement
   A bus replacement that would directly reduce GHG emissions generated by that bus service.
- Quantifed Decrease in Emissions from Complete Streets Improvements
   Improvements to roadway networks that include the addition of bicycle and pedestrian accommodations where none were present before.
- Quantified Decrease in Emissions from Other Improvement

Quantified Increase in Emissions – Projects that would be expected to produce a measurable increase in emissions

#### **Projects with Assumed Impact**

**No Assumed Impact/Negligible Impact on Emission -** Projects that do not change the capacity or use of a facility (e.g. a resurfacing project that restores a roadway to its previous condition, or a bridge rehabilitation/replacement that restores the bridge to its previous condition) would be assumed to have no GHG impact.

**Assumed Nominal Decrease in Emissions -** Projects that would be expected to produce a minor decrease in emissions that cannot be calculated with any precision. Examples of such projects include roadway repaving or reconstruction projects that add a new sidewalk or new bike lanes. Such a project would enable increased travel by walking or bicycling, but there may be not data or analysis to support any projections of GHG impacts. These projects should be categorized as a Qualitative Decrease in Emissions.

**Assumed Nominal Increase in Emissions -** Projects that would be expected to produce a minor increase in emissions that cannot be calculated with any precision. The projects should be categorized as a Qualitative Increase in Emissions.

### Regional Greenhouse Gas Impact Summary Tables for FFY 2019 – 2022 TIP

The following table (table 23) summarize the calculated quantitative and assumed qualitative impacts of the projects included in the regional FFY 2019 - 2022 TIP.

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**Table 23 Greenhouse Gas Summary Tables FFY 2019 - 2023** 

Project ID	Project Description	Total Funds	GHG Analysis	CO2(kg/yr)	GHG Impact Description
2019					
608411	SPRINGFIELD- INTERSECTION IMPROVEMENTS AT BAY STREET AND BERKSHIRE AVENUE	\$ 1,000,000	Quantified	222,751	Quantified Decrease in Emissions from Traffic Operational Improvement
600513	AGAWAM- RECONSTRUCTION OF ROUTE 187 FROM 425 FT. SOUTH OF S. WESTFIELD STREET TO ROUTE 57 (0.3 MILES - PHASE I)	\$ 2,516,438	Quantified	414	Quantified Decrease in Emissions from Complete Streets Project
608412	BELCHERTOWN- IMPROVEMENTS & RELATED WORK ON ROUTES 202 & 21, FROM TURKEY HILL ROAD TO SOUTH MAIN STREET (1.2 MILES)	\$ 5,644,850	Quantified	1,107	Quantified Decrease in Emissions from Complete Streets Project
607987	WARE- INTERSECTION IMPROVEMENTS @ MAIN STREET, WEST STREET, NORTH STREET & CHURCH STREET	\$ 1,000,000	Quantified	995	Quantified Decrease in Emissions from Complete Streets Project
604962	HOLLAND- RESURFACING & RELATED WORK ON BRIMFIELD ROAD, FROM THE BRIMFIELD/HOLLAND T.L. TO WALES ROAD (1.4 MILES - PHASE I)	\$ 2,919,446	Quantified	317	Quantified Decrease in Emissions from Complete Streets Project
606912	WORTHINGTON- RECONSTRUCTION & RELATED WORK ON ROUTE 143 (PHASE I)	\$ 8,900,000	Quantified	345	Quantified Decrease in Emissions from Complete Streets Project
PV0001	P21 Express - Year 2 Operating	\$ 500,000	Quantified	24,671	Quantified Decrease in Emissions from New/Additional Transit Service
603783	WESTFIELD- COLUMBIA GREENWAY RAIL TRAIL CONSTRUCTION (CENTER DOWNTOWN SECTION), FROM EAST SILVER STREET TO COWLES COURT, INCLUDES W-25,014, W-25-015, W-25-016, W-25-017, W-25-018 & W-25-019	\$ 6,532,895	Quantified	4,458	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
2020			Total	255,058	
	WESTFIELD- IMPROVEMENTS & RELATED WORK ON ROUTE 20, COURT STEET & WESTERN AVENUE, LLOYDS HILL ROAD TO HIGH STREET/MILL STREET INTERSECTION (PHASE II)	\$ 5,500,000	Quantified	1,290	Quantified Decrease in Emissions from Complete Streets Project
604434	CHICOPEE- RECONSTRUCTION & RELATED WORK ON FULLER ROAD, FROM MEMORIAL DR (RTE 33) TO SHAWINIGAN DR (2.0 MILES)	\$ 5,907,953	Quantified	205,229	Quantified Decrease in Emissions from Traffic Operational Improvement

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Table 23 Transit Greenhouse Gas Summary Tables FFY 2019 - 2023 (Continued)

608236 NORTHAMPTON- RECONSTRUCTION OF DAMON ROAD, FROM ROUTE 9 TO ROUTE 5, INCLUDES DRAINAGE SYSTEM REPAIRS & SLOPE STABILIZATION AT THE NORWOTTUCK RAIL TRAIL	\$10,248,854	Quantified	1,983	Quantified Decrease in Emissions from Complete Streets Project
602911 CHICOPEE- CONNECTICUT RIVERWALK & BIKEWAY CONSTRUCTION, FROM BOAT RAMP NEAR I-90 TO NASH FIELD (2.5 MILES), INCLUDES NEW BRIDGE C-13-060 OVER OVERFLOW CHANNEL	\$ 3,247,643	Quantified		Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
2021		Total	281,755	
608084 AMHERST- IMPROVEMENTS & RELATED WORK ON ROUTES 9 & 116, FROM UNIVERSITY DRIVE TO SOUTH PLEASANT STREET (0.8 MILES)	\$ 3,121,863	Quantified	3,109	Quantified Decrease in Emissions from Complete Streets Project
608577 EASTHAMPTON- IMPROVEMENTS AND RELATED WORK ON UNION STREET (ROUTE 141) FROM PAYSON AVENUE TO HIGH STREET (0.36 MILES)	\$ 2,201,643	Quantified	3,170	Quantified Decrease in Emissions from Complete Streets Project
605032 HADLEY- RECONSTRUCTION ON ROUTE 9, FROM MIDDLE STREET TO MAPLE/SOUTH MAPLE STREET	\$12,652,410	Quantified	354	Quantified Decrease in Emissions from Complete Streets Project
608157 SPRINGFIELD- MCKNIGHT COMMUNITY TRAIL CONSTRUCTION, FROM ARMORY STREET TO HAYDEN AVENUE (1.5 MILES)	\$ 3,694,624	Quantified	45,830	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
2022		Total	52,463	
606895 GRANBY- IMPROVEMENTS @ 2 LOCATIONS ON ROUTE 202: SCHOOL STREET & FIVE CORNERS	\$ 1,866,866	Quantified	273	Quantified Decrease in Emissions from Complete Streets Project
608466 BELCHERTOWN- GRANBY- RESURFACING AND RELATED WORK ON ROUTE 202	\$ 4,163,040	Quantified	3,812	Quantified Decrease in Emissions from Complete Streets Project
602912 CHICOPEE- CHICOPEE RIVER RIVERWALK MULTI-USE PATH CONSTRUCTION, FROM GRAPE STREET TO FRONT STREET (NEAR ELLERTON STREET) (1 MILE)	\$ 2,273,911	Quantified	3,248	Quantified Decrease in Emissions from Bicycle and Pedestrian Infrastructure
2022		Total	7,333	
NO QUANTIFIED PROJECTS AT THIS TIME				
		Total Total 2019-2023	0 596,609	

# **APPENDICES**

# **APPENDIX A: MassDOT Targets**

#### FFY 2019-2023 STIP 2019 BUDGET

			Obligation		Matching funds			(Proposed) d + match)
			(federa	al aid only)				
	Ва	se obligation authority	\$	611,680,644				
	Planned	redistribution request	\$	50,000,000				
	Total Estimate	ed Funding Available	\$	661,680,644				
		3						
	A	BP GANS Repayment	_	(66,015,000)				
Total non-earmarked funding a∨ailable			\$	595,665,644	\$	138,437,429	\$	734,103,074
Planning / Adjustments / Pass-throughs								
Award adjustments, change orders, etc.			\$	21,645,935	\$	5,411,484	\$	27,057,419
Metropolitan planning			\$	8,670,263	\$	2,167,566	\$	10,837,829
State planning and research			\$	14,026,697	\$	3,506,674	\$	17,533,371
Freight Plan flex to Rail and Transit			\$	2,021,285	\$	505,321	\$	2,526,606
Recreational trails			\$	2,519,509	\$	629,877	\$	3,149,386
Railroad grade crossings			\$	3,800,000	\$	422,222	\$	4,222,222
MassRides program			\$	2,660,000		665,000	\$	3,325,000
	ubtotal of planning / adju-	stments / pass-throughs		55,343,689	\$	13,308,145	<u> </u>	68,651,834
Funding for regional priorities	regional share %	MPO		ederal aid	Matching fo			ng (proposed
. аад .э од эла. рэээ		Berkshire	\$	6,583,267	\$	1.601.423		8,184,689
	42.9671%		\$	79.465.073		19.329.188	<u> </u>	98,794,261
		Cape Cod	\$	8.479.867	\$	2.062.749	<u> </u>	10,542,616
		Central Mass	\$	16,071,819		3,909,400	\$	19,981,218
	2.5397%		\$	4,697,023		1,142,615		5,839,638
		Martha's Vineyard	\$	573,326	\$	139,385		712,712
		Merrimack Vallev	\$	8.192.279	\$	1.992.601		10.184.880
		Montachusett	\$		-			
		Nantucket	\$	8,247,763 406,877	\$	2,006,090 98,919		10,253,853
								505,795
		Northern Middlesex	\$	7,230,571	\$	1,758,793		8,989,364
		Old Colony	\$	8,432,522	\$	2,051,238		10,483,760
		Pioneer Valley	\$	19,992,261	\$	4,862,985	T	24,855,247
		Southeastern Mass	\$	16,571,167	\$	4,030,800		20,601,967
	l otal tune	ding of regional priorities		184,944,000		44,986,185		229,930,000
Highway Di∨ision programs			\$	355,377,955		80,143,100		435,521,05
Reliability programs			\$	277,657,955	\$	62,379,767	\$	340,037,722
Bridge program			\$	147,807,955	\$	36,951,989	\$	184,759,944
		Inspections	\$	=	\$	-	\$	-
	Sy.	stematic maintenance	\$	8,000,000	\$	2,000,000	\$	10,000,000
	On-sy	stem NHS (minimum)	\$	96,000,000	\$	24,000,000	\$	120,000,000
		On-System Non-NHS	\$	15,307,955	\$	3,826,989	\$	19,134,94
		Off-system	\$	28,500,000	\$	7,125,000	\$	35,625,000
Interstate pavement program			\$	27,650,000	\$	3,072,222	\$	30,722,222
Non-interstate DOT pavement program			\$	69,200,000	\$	17,300,000	\$	86,500,000
Roadway improvements program			\$	2,000,000	\$	500,000	\$	2,500,000
Safety improvements program			\$	31,000,000	\$	4,555,556	\$	35,555,556
Modernization programs			\$	41,400,000	\$	8,683,333	\$	50,083,333
ADA retrofits program			\$	2,400,000	\$	600,000	\$	3,000,000
Intersection improvements program			\$	19,000,000	\$	3,083,333		22,083,333
Intelligent Transportation Systems program			\$	11,000,000		2,750,000		13,750,000
Roadway reconstruction program			\$	9,000,000	-	2,250,000	-	11,250,000
Expansion programs			\$	36,320,000		9,080,000		45,400,000
Bicycles and pedestrians program			\$	36,320,000		9,080,000	\$	45,400,000
2.0,0.00 a.ra poacoariano program			*	30,020,000	\$	0,000,000	\$	10,700,000

#### FFY 2019-2023 STIP 2020 BUDGET

		Obligation authority	Matching funds	FFY 2020 (Proposed) (federal aid + match)
		(federal aid only)		
	Base obligation authority			
	Planned redistribution request			
	Total Estimated Funding Available			
	· ·			
	ABP GANS Repayment			A 700 705 000
Total non-earmarked funding available		\$ 594,760,019	\$ 139,025,281	\$ 733,785,300
Planning / Adjustments / Pass-throughs				1.
Award adjustments, change orders, etc.		\$ 38,175,176		
Metropolitan planning		\$ 8,670,263	· · · · ·	1
State planning and research		\$ 14,026,697		
Freight Plan flex to Rail and Transit		\$ 2,245,872		
Recreational trails		\$ 1,186,729		
Railroad grade crossings		\$ 2,000,000		
MassRides program		\$ 2,660,000		+ -,,
	subtotal of planning / adjustments / pass-throughs			
Funding for regional priorities	regional share % MPO	Total federal aid	Matching funds	Total funding (proposed)
	3.5596% Berkshire	\$ 6,791,857		
	42.9671% Boston	\$ 81,982,925		
	4.5851% Cape Cod	\$ 8,748,552		
	8.6901% Central Mass	\$ 16,581,054	+ ' - ' - '	
	2.5397% Franklin	\$ 4,845,848	·	, ,
	0.3100% Martha's Vineyard	\$ 591,492		
	4.4296% Merrimack Valley	\$ 8,451,852		
	4.4596% Montachusett	\$ 8,509,093		
	0.2200% Nantucket	\$ 419,769		
	3.9096% Northern Middlesex	\$ 7,459,671		
	4.5595% Old Colony	\$ 8,699,706		<u> </u>
	10.8099% Pioneer Valley	\$ 20,625,716		. , ,
	8.9601% Southeastern Mass	\$ 17,096,225		1 ' ' '
	Total funding of regional priorities			
Highway Division programs		\$ 334,991,330	\$ 74,360,935	\$ 409,352,265
Reliability programs		\$ 280,591,330	\$ 62,844,268	\$ 343,435,598
Bridge program		\$ 154,820,000	\$ 38,705,000	\$ 193,525,000
	Inspections	\$ 14,320,000	\$ 3,580,000	\$ 17,900,000
	Systematic maintenance	\$ 8,000,000	\$ 2,000,000	\$ 10,000,000
	On-system NHS (minimum)	\$ 94,900,000	\$ 23,725,000	\$ 118,625,000
	On-System Non-NHS	\$ 9,100,000	\$ 2,275,000	\$ 11,375,000
	Off-system	\$ 28,500,000	\$ 7,125,000	\$ 35,625,000
Interstate pavement program	·	\$ 37,585,665	\$ 4,176,185	\$ 41,761,850
Non-interstate DOT pavement program		\$ 65,185,665	\$ 16,296,416	\$ 81,482,081
Roadway improvements program		\$ 3,000,000	\$ 750,000	\$ 3,750,000
Safety improvements program		\$ 20,000,000	\$ 2,916,667	\$ 22,916,667
Modernization programs		\$ 34,400,000	\$ 6,516,667	\$ 40,916,667
ADA retrofits program		\$ -	\$ -	\$ -
Intersection improvements program		\$ 17,000,000	\$ 2,166,667	\$ 19,166,667
Intelligent Transportation Systems program		\$ 10,000,000	\$ 2,500,000	\$ 12,500,000
Roadway reconstruction program		\$ 7,400,000	\$ 1,850,000	\$ 9,250,000
Expansion programs		\$ 20,000,000	\$ 5,000,000	\$ 25,000,000
Bicycles and pedestrians program		\$ 20,000,000	\$ 5,000,000	\$ 25,000,000
Capacity program		\$ -	\$ -	\$ -

#### FFY 2019-2023 STIP 2021 BUDGET

		auth	gation ority ral aid only)	Mate fund	ching ds		2021 (Proposed) eral aid + match)
	Base obligation authority		641,988,270				
	Planned redistribution request		50,000,000				
	Total Estimated Funding Available	_	691,988,270				
	ABP GANS Repayment		(85,190,000)				
Total non-earmarked funding available	7157 State Hopaymone	\$	606,798,270		144,651,660	\$	751,449,930
Planning / Adjustments / Pass-throughs							
Award adjustments, change orders, etc.		\$	33.342.205	\$	8,335,551	\$	41,677,756
Metropolitan planning		\$	8,670,263	\$	2,167,566	\$	10,837,829
State planning and research		\$	14,026,697	\$	3,506,674	_	17,533,371
Freight Plan flex to Rail and Transit		\$	2.245.872	\$	561,468	\$	2,807,340
Recreational trails		\$	1,186,729	\$	296,682		1,483,411
Railroad grade crossings		\$	2,000,000	\$	222,222	\$	2,222,222
MassRides program		\$	2,660,000		665,000	\$	3,325,000
	ubtotal of planning / adjustments / pass-throughs		64,131,766	\$	15,755,164	\$	79,886,929
Funding for regional priorities	regional share % MPO	Total	federal aid	Mate	ching funds	Total	funding (proposed)
	3.5596% Berkshire	\$	6,929,328	\$	1,732,332	\$	8,661,660
	42.9671% Boston	\$	83,642,302	\$	20,910,575	\$	104,552,877
	4.5851% Cape Cod	\$	8,925,627	\$	2,231,407	\$	11,157,034
	8.6901% Central Mass	\$	16,916,663	\$	4,229,166	\$	21,145,829
	2.5397% Franklin	\$	4,943,930	\$	1,235,983	\$	6,179,913
	0.3100% Martha's Vineyard	\$	603,464	\$	150,866	\$	754,330
	4.4296% Merrimack Valley	\$	8,622,922	\$	2,155,730	\$	10,778,652
	4.4596% Montachusett	\$	8,681,322	\$	2,170,330	\$	10,851,652
	0.2200% Nantucket	\$	428,265	\$	107,066	\$	535,331
	3.9096% Northern Middlesex	\$	7,610,659	\$	1,902,665	\$	9,513,324
	4.5595% Old Colony	\$	8,875,793	\$	2,218,948	\$	11,094,741
	10.8099% Pioneer Valley	\$	21,043,192	\$	5,260,798	\$	26,303,990
	8.9601% Southeastern Mass	\$	17,442,261	\$	4,360,565	\$	21,802,827
	Total funding of regional priorities	\$	194,665,923	\$	48,666,432	\$	243,332,161
Highway Division programs		\$	348,000,581	\$	80,230,065	\$	428,230,646
Reliability programs		\$	239,280,581	\$	54,577,842	\$	293,858,423
Bridge program		\$	140,500,000	\$	35,125,000	\$	175,625,000
	Inspections	\$	-	\$	-	\$	-
	Systematic maintenance	\$	8,000,000	\$	2,000,000	\$	10,000,000
	On-system NHS (minimum)	\$	94,900,000	\$	23,725,000	\$	118,625,000
	On-System Non-NHS	\$	9,100,000	\$	2,275,000	\$	11,375,000
	Off-system	\$	28,500,000	\$	7,125,000	\$	35,625,000
Interstate pavement program		\$	24,744,581	\$	2,749,398	\$	27,493,979
Non-interstate DOT pavement program		\$	54,036,000	\$	13,509,000	\$	67,545,000
Roadway improvements program		\$	3,000,000	\$	750,000	\$	3,750,000
Safety improvements program		\$	17,000,000	\$	2,444,444	\$	19,444,444
Modernization programs		\$	80,720,000	\$	18,652,222	\$	99,372,222
ADA retrofits program		\$	1,400,000		350,000	-	1,750,000
Intersection improvements program		\$	16,000,000	\$	2,472,222	\$	18,472,222
Intelligent Transportation Systems program		\$	8,000,000	\$	2,000,000	\$	10,000,000
Roadway reconstruction program		\$	55,320,000		13,830,000	_	69,150,000
Expansion programs		\$	28,000,000	\$	7,000,000	\$	35,000,000
Bicycles and pedestrians program		\$	28,000,000	\$	7,000,000	\$	35,000,000
Capacity program		\$	-	\$	-	\$	-

#### FFY 2019-2023 STIP 2022 BUDGET

	Obligation		Match	ing	FFY 2022 (Proposed)		
		autho		funds		(feder	ral aid + match)
			al aid only)	1001001001001001001			
	Base obligation authority		658,744,163				
	Planned redistribution request		50,000,000				
	Total Estimated Funding Available	\$	708,744,163				
	ABP GANS Repayment	\$	(89,590,000)				
Total non-earmarked funding available		\$	619,154,163	\$	147,301,057	\$	766,455,220
Planning / Adjustments / Pass-throughs							
Award adjustments, change orders, etc.		\$	36,361,281	\$	9,090,320	\$	45,451,601
Metropolitan planning		\$	8,670,263	\$	2,167,566	\$	10,837,829
State planning and research		\$	14,026,697	\$	3,506,674	\$	17,533,371
Freight Plan flex to Rail and Transit		\$	2,245,872	\$	561,468	\$	2,807,340
Recreational trails		\$	1,186,729	\$	296,682	\$	1,483,411
Railroad grade crossings		\$	2,000,000	\$	222,222	\$	2,222,222
MassRides program		\$	2,660,000	\$	665,000	\$	3,325,000
	subtotal of planning / adjustments / pass-throughs	\$	67,150,842	\$	16,509,933	\$	83,660,774
Funding for regional priorities	regional share % MPO	Total 1	ederal aid	Matchi	ng funds	Total:	funding (proposed)
	3.5596% Berkshire	\$	7,070,426	\$	1,767,607	\$	8,838,033
	42.9671% Boston	\$	85,345,463	\$	21,336,366	\$	106,681,829
	4.5851% Cape Cod	\$	9,107,375	\$	2,276,844	\$	11,384,218
	8.6901% Central Mass	\$	17,261,128	\$	4,315,282	\$	21,576,410
	2.5397% Franklin	\$	5,044,601	\$	1,261,150	\$	6,305,751
	0.3100% Martha's Vineyard	\$	615,752	\$	153,938	\$	769,690
	4.4296% Merrimack Valley	\$	8,798,505	\$	2,199,626	\$	10,998,132
	4.4596% Montachusett	\$	8,858,094	\$	2,214,524	\$	11,072,618
	0.2200% Nantucket	\$	436,986	\$	109,246	\$	546,232
	3.9096% Northern Middlesex	\$	7,765,631	\$	1,941,408	\$	9,707,038
	4.5595% Old Colony	\$	9,056,526	\$	2,264,131	\$	11,320,657
	10.8099% Pioneer Valley	\$	21,471,682	\$	5,367,921	\$	26,839,603
	8.9601% Southeastern Mass	\$	17,797,428	\$	4,449,357	\$	22,246,785
	Total funding of regional priorities	\$	198,629,796	\$	49,657,399	\$	248,286,997
Highway Division programs		\$	353,373,525	\$	81,133,725	\$	434,507,250
Reliability programs		\$	246,873,525	\$	56,592,058	\$	303,465,583
Bridge program		\$	154,820,000	\$	38,705,000	\$	193,525,000
	Inspections	\$	14,320,000	\$	3,580,000	\$	17,900,000
	Systematic maintenance	\$	8,000,000	\$	2,000,000	\$	10,000,000
	On-system NHS (minimum)	\$	94,900,000	\$	23,725,000	\$	118,625,000
	On-System Non-NHS	\$	9,100,000	\$	2,275,000	\$	11,375,000
	Off-system	\$	28,500,000	\$	7,125,000	\$	35,625,000
Interstate pavement program		\$	22,909,525	\$	2,545,503	\$	25,455,028
Non-interstate DOT pavement program		\$	51,144,000	\$	12,786,000	\$	63,930,000
Roadway improvements program		\$	1,000,000	\$	250,000	\$	1,250,000
Safety improvements program		\$	17,000,000	\$	2,305,556	\$	19,305,556
Modernization programs		\$	78,500,000	\$	17,541,667	\$	96,041,667
ADA retrofits program		\$	-	\$	-	\$	
Intersection improvements program			15,000,000	\$	1,666,667	\$	16,666,667
Intelligent Transportation Systems program	\$	8,000,000	\$	2,000,000	\$	10,000,000	
Roadway reconstruction program		\$	55,500,000		13,875,000	_	69,375,000
Expansion programs		\$	28,000,000		7,000,000		35,000,000
Bicycles and pedestrians program		\$	28,000,000	\$	7,000,000	\$	35,000,000
Capacity program		\$	-	\$	-		

#### FFY 2019-2023 STIP **2023 BUDGET**

				gation authority ral aid only)	Mato fund	_		:023 (Proposed) ral aid + match)
	Ва	se obligation authority	\$	676,662,005				
	Planned	redistribution request	\$	50,000,000				
	Total Estimat	ed Funding Available	\$	726,662,005				
	Δ	BP GANS Repayment	<b>c</b>	(93,985,000)				
Total non-earmarked funding available		DE OANS Repayment	\$	632,677,005	\$	150,023,500	\$	782,700,504
Planning / Adjustments / Pass-throughs								
Award adjustments, change orders, etc.			\$	20.000.000	\$	5.000.000	\$	25,000,000
Metropolitan planning			\$	8,670,263	\$	2,167,566	\$	10,837,829
State planning and research			\$	14,026,697	\$	3,506,674		17,533,371
Recreational trails			\$	1,186,729	\$	296,682		1,483,411
Railroad grade crossings			\$	2,000,000	\$	222,222	\$	2,222,222
MassRides program			\$	2,660,000	\$	665,000		3,325,000
	subtotal of planning / adj	ustments / pass-throughs	\$	48,543,689	\$	11,858,144	\$	60,401,833
Funding for regional priorities	regional share %	MPO	Total	federal aid	Mato	hing funds	Total	funding (proposed)
	3.5596%	Berkshire	\$	7,224,850	\$	1,806,213	\$	9,031,063
	42.9671%	Boston	\$	87,209,479	\$	21,802,370	\$	109,011,849
	4.5851%	Cape Cod	\$	9,306,287	\$	2,326,572		11,632,859
	8.6901%	Central Mass	\$	17,638,125	\$	4,409,531	\$	22,047,657
	2.5397%	Franklin	\$	5,154,779	\$	1,288,695	\$	6,443,474
	0.3100%	Martha's Vineyard	\$	629,201	\$	157,300	\$	786,501
		Merrimack Valley	\$	8,990,672	\$	2,247,668	\$	11,238,340
	4.4596%	Montachusett	\$	9,051,563	\$	2,262,891	\$	11,314,453
	0.2200%	Nantucket	\$	446,530	\$	111,632	\$	558,162
	3.9096%	Northern Middlesex	\$	7,935,238	\$	1,983,810	\$	9,919,048
	4.5595%	Old Colony	\$	9,254,328	\$	2,313,582	\$	11,567,910
	10.8099%	Pioneer Valley	\$	21,940,642	\$	5,485,160	\$	27,425,802
	8.9601%	Southeastern Mass	\$	18,186,139	\$	4,546,535	\$	22,732,674
	Total fur	ding of regional priorities	\$	202,968,036	\$	50,741,958	\$	253,709,792
Highway Division programs			\$	381,165,279	\$	87,423,397	\$	468,588,676
Reliability programs			\$	267,601,252	\$	61,384,440	\$	326,834,487
Bridge program			\$	166,996,123	\$	41,749,031	\$	207,515,202
		Inspections			\$	_	\$	<u> </u>
	Sy	stematic maintenance	\$	8,629,176	\$	2,157,294	\$	10,722,914
		On-system NHS	\$	94,900,000	\$	23,725,000	\$	118,625,000
		On-System Non-NHS	\$	9,815,687	\$	2,453,922	\$	12,197,315
		Off-system	\$	28,500,000	\$	7,125,000	\$	35,625,000
Interstate pavement program			\$	24,711,290	\$	2,745,699	\$	27,456,989
Non-interstate DOT pavement program			\$	56,414,722	\$	14,103,681	\$	70,518,403
Roadway improvements program			\$	1,142,119		285,530		1,427,648
Safety improvements program			\$	18,336,998	\$	2,500,500	\$	20,837,498
Modernization programs			\$	84,673,787	\$	18,816,397	\$	102,880,407
			\$	1,400,000	\$	350,000	\$	1,750,000
			\$	16,934,757	\$	1,881,640	\$	18,705,529
			\$	8,000,000	-	2,000,000	\$	10,000,000
Roadway reconstruction program			\$	58,339,029	\$	14,584,757	\$	72,424,878
Expansion programs			\$	28,890,241		7,222,560	\$	36,112,801
Bicycles and pedestrians program			\$	28,890,241	\$	7,222,560	\$	36,112,801
Capacity program			\$	-	\$	-	\$	-

### APPENDIX B: Metropolitan Planning Area (MPA) State and Local Consulted Agencies

As required in MAP-21, the Moving Ahead for Progress in the 21st Century Act (P.L. 112-141) consulted with agencies and officials responsible for other planning activities within the MPA (metropolitan planning area) that are affected by transportation (including State and local planned growth, economic development, environmental protection, airport operations, or freight movements) or coordinate its planning process (to the maximum extent practicable) with such planning activities

PVMPO fulfilled these requirements through the processes tied to the Joint Transportation Committee (JTC). Listed below are two tables, table 25 list agencies with transportation interest in the Metropolitan Planning Area (MPA) that were contacted for the purpose of consultation while developing the TIP. Table 26 lists the agencies from table 26 which responded and coordinated meetings were held during TIP development.

Table 25: Agencies Contacted

Agency	Agency Location
Westfield River Wild and Scenic Advisory Committee	Haydenville
MassDOT - Office of Transportation Planning	Boston
FEDERAL HIGHWAY ADMIN	Cambridge
US EPA	Boston
MassDOT	Boston
COUNCIL ON AGING	Granby
AIR QUALITY CONTROL (DEP)	Boston
FEDERAL TRANSIT ADMIN	Cambridge
MassDOT Highway Division District 1& 2	Northampton/Lenox
OFFICE OF SOCIAL CONCERN	Springfield
Economic Development Council of Western Mass	Springfield
PETER PAN BUS LINES, INC.	Springfield
Pioneer Valley Transit Authority (PVTA)	Springfield
BARNES AIRPORT	Westfield
Pioneer Valley RR	Westfield
Bike/Ped Community (MassBike)	Williamsburg
UMASS Transit	Amherst
Colubmia Greenway Rail Trail Committee	Westfield

These agencies are solicited to comment and provide relevant information during TIP development and are invited to attend all meetings and workshop involving project evaluation. Agendas and information in regards the TIP and its development are distributed by mail prior to meetings as outlined in the Public Participation Plan for the Pioneer Valley.

# **Table 26: Agencies Providing Consultation)**

## **APPENDIX C: FAST Act Performance Management Information**

The FHWA and FTA are jointly issuing this final rule to update the regulations governing the development of metropolitan transportation plans (MTP) and programs for urbanized areas, longrange statewide transportation plans and programs, and the congestion management process as well as revisions related to the use of and reliance on planning products developed during the planning process for project development and the environmental review process. The changes reflect the passage of the Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation (FAST) Act. The MAP-21 continues many provisions related to transportation planning from prior laws; however, it introduces transformational changes and adds some new provisions. The FAST Act makes minor edits to existing provisions. The changes make the regulations consistent with current statutory requirements and implement the following: A new mandate for State departments of transportation (hereafter referred to simply as "States") and metropolitan planning organizations (MPO) to take a performance-based approach to planning and programming; a new emphasis on the nonmetropolitan transportation planning process, by requiring States to have a higher level of involvement with nonmetropolitan local officials and providing a process for the creation of regional transportation planning organizations (RTPO); a structural change to the membership of the larger MPOs; a new framework for voluntary scenario planning; new authority for the integration of the planning and environmental review processes; and a process for programmatic mitigation plans.<sup>2</sup>

PVPC accomplishes these requirements through the recent update to the Transportation Evaluation Criteria (TEC) for the Pioneer Valley MPO. The table below shows the relationship between FAST act planning factors and our TEC criteria. The TEC criteria is mainly based of PVPC various data driven process which include Pavement, Congestion, Safety as well as other readilty available data.

Fast Act Planning Factors Relationship to the Transportation Evaluation Critieria (TEC)

Factor	Fast Act 10 Planning Factors Description	TEC Scoring Criteria			
1	Support the economic vitality of the metropolitan areas, especially by enabling global competitiveness, productivity, and efficiency.	Smarch Growth and Economic Development, System Preservation, Modernization and Efficiency			
2	Increase the safety of the transportation system for motorized and non-motorized users.	Safety and Security, Quality of Life			
3	Increase the security of the transportation system for motorized and non-motorized users.	Safety and Security, Quality of Life			
4	Increase the accessibility and mobility of people and for freight.	Mobility, Smart Growth and Economic Development			
5	Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.	Environment and Climate Change, Quality of Life, Livability, Smart Growth and Economic Development			

 $<sup>\</sup>frac{^2}{\text{https://www.federalregister.gov/articles/2016/05/27/2016-11964/statewide-and-nonmetropolitan-transportation-planning-metropolitan-transportation-planning\#h-9}$ 

	6	Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.	Smart Growth and Economic Development, Mobility			
Ī	7	Promote efficient system management and operation.	System Preservation, Modernization and Efficiency, Mobility			
Ī	8	Emphasize the preservation of the existing transportation system.	System Preservation, Modernization and Efficiency			
	9	Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.	Environment and Climate Change			
	10	Enhancing travel and tourism.	Mobility, Quality of Life			

#### **APPENDIX D: Planning Acronyms**

**3C** - Continuing, Comprehensive, and Cooperative Planning Process

**AADT** - Average Annual Daily Traffic

**AASHTO** - American Association of State Highway and Transportation Officials

ADA - Americans with Disabilities Act (1990)

ADT - Average Daily Traffic

AFV - Alternative Fuel Vehicles

ATR - Automatic Traffic Recorder

AVR - Average Vehicle Ridership

**BAPAC** - Barnes Aquifer Protection Advisory Committee

**BID** - Business Improvement District

**BLOS** - Bicycle Level of Service

**BMP** - Best Management Practice

**BMS** - Bridge Management System

CAAA - Clean Air Act Amendments of 1990

**CBD** - Central Business District

**CDBG** - Community Development Block Grant

**CDC** - Centers for Disease Control

**CEDS** - Comprehensive Economic Development Strategy

**CIP** - Capital Improvements Plan (or Program)

**CMAQ** - Congestion Mitigation and Air Quality

Improvement Program

**CMP** - Congestion Management Process

CNG - Compressed Natural Gas

CO - Carbon Monoxide

**COG** - Council of Governments

**Comm-PASS** - Commonwealth Procurement Access and Solicitation System

**CPA** - Community Preservation Act

**CPTC** - Citizen Planner Training Collaborative

**CRCOG** - Capitol Region Council of Governments

CSO - Combined Sewer Overflow

**DCR** - Department of Conservation and Recreation

**DEP** - Department of Environmental Protection

**DHCD** - Department of Housing and Community Development

**DLTA** - Direct Local Technical Assistance

**DOT** - Department of Transportation

**DPW** - Department of Public Works

E.O. - Executive Order

**EDC** - Economic Development Council

**EIR** - Environmental Impact Report

**EIS** - Environmental Impact Statement

**EJ** - Environmental Justice

**ENF** - Environmental Notification Form

EOA - Economic Opportunity Area

**EOEEA** - Executive Office of Energy and

**Environmental Affairs** 

**EPA** - Environmental Protection Agency

FA - Federal Aid

FAST - Fixing America's Surface Transportation Act

FC - Functional Classification (of roadways)

FHA - Federal Housing Administration

FHWA - Federal Highway Administration

FRCOG - Franklin Regional Council of Governments

FRTA - Franklin Regional Transit Authority

FTA - Federal Transit Administration

**GHG** - Greenhouse Gas

**GIS** - Geographic Information System

**GPS** - Global Positioning System

**HOV** - High Occupancy Vehicle

**HUD** - U.S. Department of Housing and Urban

Development

ISTEA - Intermodal Surface Transportation Efficiency

Act of 1991

ITS - Intelligent Transportation Systems

JARC - Job Access and Reverse Commute

JLSB - Jacob's Ladder Scenic Byway

JLT - Jacob's Ladder Trail

JTC - Joint Transportation Committee

**LEP** - Limited English Proficiency

LOS - Level of Service

LPMS - Local Pavement Management System

LRV - Light Rail Vehicle

LTA - Local Technical Assistance

M.G.L. - Massachusetts General Laws

**MAP 21** - Moving Ahead for Progress in the 21st Century

**MARPA** - Massachusetts Association of Regional Planning Agencies

**MassDOT** - Massachusetts Department of Transportation

MassGIS - Massachusetts Geographic Information

MEPA - Massachusetts Environmental Policy Act

MMA - Massachusetts Municipal Association

**MOA** - Memorandum of Agreement

MOU - Memorandum of Understanding

MPO - Metropolitan Planning Organization

**MUTCD** - Manual of Uniform Traffic Control Devices

NFA - Non-Federal Aid

NHS - National Highway System

NHTSA - National Highway Traffic Safety

Administration

NOx - Nitrogen Oxide

NTSB - National Transportation Safety Board

**OCI** - Overall Condition Index (Pavement)

**PCI** - Pavement Condition Index

PL - [Metropolitan] Planning Funds

PMS - Pavement Management System

PMUG - Pavement Management Users Group

PPP - Public Participation Process

**PVTA** - Pioneer Valley Transit Authority

**QVCDC** - Quaboag Valley Community Development Corp.

**REB** - Regional Employment Board

RIF - Roadway Inventory Files

RPA - Regional Planning Agency

RTA - Regional Transit Authority

RTP - Regional Transportation Plan

SAFETEA-LU - Safe, Accountable, Flexible, Efficient

Transportation Equity Act: A Legacy for Users

**SBA** - Small Business Administration

SIP - State Implementation Plan (for air quality)

**SKC** - Sustainable Knowledge Corridor

SOV - Single Occupancy Vehicle

SPR - Statewide Planning and Research Funds

**STIP** - Statewide Transportation Improvement Program

STP - Surface Transportation Program

TCSP - Transportation and Community System

Preservation [Pilot Program]

**TDM** - Transportation Demand Management

**TEA-21** - Transportation Equity Act for the 21st Century

**TIP** - Transportation Improvement Program

TMC - Turning Movement Count

TND - Traditional Neighborhood District

TOD - Transit Oriented Design (or Development)

TRB - Transportation Research Board

TRO - Trip Reduction Ordinance

**TSM** - Transportation Systems Management

**UMass** - University of Massachusetts

**UPWP** - Unified Planning Work Program

VMT - Vehicle Miles Traveled

VOC - Volatile Organic Compound

VOR - Vehicle Occupancy Rate

WBE - Women-owned Business Enterprises

WRWA - Westfield River Watershed Association

WRWSAC - Westfield River Wild & Scenic Advisory Committee

**ZBA** - Zoning Board of Adjustment (or Appeals)